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ENVIRONMENTAL CONSULTANTS

November 1, 2013

Ashley Holt, P.G., Manager
State Remediation Program
Division of Remediation
Tennessee Department of Environment and Conservation
William R. Snodgrass TN Tower
312 Rosa L. Parks Avenue, 14th Floor
Nashville, Tennessee, 37243

**Re: Report of September 2013 Groundwater Monitoring Event
Solvent Release Response
Egyptian Lacquer Manufacturing Company
Franklin, Tennessee
TriAD Project No. 07-ELM01-01**

Dear Ms. Holt:

TriAD Environmental Consultants, Inc. (TriAD), on behalf of Egyptian Lacquer Manufacturing Company (ELMCO) and through its attorneys Stites and Harbison, PLLC, is submitting this report of semi-annual groundwater monitoring performed in September 2013 as part of ELMCO's response to its accidental solvent release discovered in early 2007. Routine groundwater monitoring has been performed since February 2008, with the results regularly reported to TDEC. Earlier data were collected and reported as wells were installed during 2007. In response to a request made by ELMCO in the report of the December 2012 event, TDEC approved (in a March 22, 2013, email from Mr. Chris Lagan) a change in groundwater monitoring schedule and wells to be monitored. The revised schedule calls for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, RW-1, and AR-1 on a semi-annual basis. Monitoring wells MW-6 and MW-7 will no longer be routinely monitored, but will be maintained pending future decisions regarding their status. The September 2013 event was the second performed in accordance with this schedule.

Well RW-1 was being monitored on a quarterly basis by AquAeTer, Inc. (AquAeTer) as part of follow-up monitoring to AquAeTer's 2010-2011 efforts to

stimulate aerobic biological degradation of the organic compounds in the groundwater. This monitoring was terminated in August 2013. AquAeTer's results were separately reported.

Field Activities

On September 17 and 18, 2013, TriAD personnel collected groundwater elevation data and groundwater samples from the following monitoring wells at and around the ELMCO site: MW-1, MW-2, MW-3, MW-4, MW-5, AR-1, and RW-1. In addition, groundwater elevation data were collected from monitoring wells MW-6 and MW-7. Because of unusual laboratory results reported for the sample from MW-3, that well was resampled on October 22, 2013. Figure 1 shows the well locations and potentiometric data.

All samples were collected using dedicated bladder pumps and low-flow purge technique. Field parameters pH, conductivity, temperature, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured during purging using a flow-through cell and calibrated instruments. During purging, water-level drawdown was checked using an electronic water-level indicator. If drawdown exceeded 0.3 foot, the pump was turned off until the level had recovered to allow continuation of purging. The only exceptions to this rule were at very low-yielding wells MW-3 and MW-5. Well MW-3, during both the September initial monitoring event and the October resample, was sampled after purging approximately 2 equipment volumes (pump and tubing), and before the water level dropped below the pump level. Well MW-5 was sampled the following day after purging of multiple pump and tubing volumes, after it had partially recovered. Groundwater sampling data sheets showing collected field data are presented in Attachment 1.

Sample Analysis and Data Evaluation

All samples from the September event, including a trip blank prepared by the laboratory and a field blank prepared by TriAD in the field, were transferred under chain-of-custody procedures to TestAmerica in Nashville, Tennessee, where they were analyzed for volatile organic compounds (VOCs) by U.S. EPA SW846 Method 8260B. A copy of the laboratory report is included in Attachment 2. No constituents were detected in the trip or field blanks. As noted in the laboratory report, minor quality assurance/quality control issues did occur during analysis but did not significantly affect the analytical results. The reporting limits for samples from MW-3, RW-1, and AR-1 were elevated due to matrix interferences.

The samples from the October 22, 2013, resample of MW-3, including a trip blank prepared by the laboratory, were transferred under chain-of-custody procedures to TestAmerica in Nashville, Tennessee, where they were analyzed for volatile organic compounds (VOCs) by U.S. EPA SW846 Method 8260B. A

copy of the laboratory report is included in Attachment 2. No constituents were detected in the trip blank. As noted in the laboratory report, minor quality assurance/quality control issues did occur during analysis but did not significantly affect the analytical results.

The laboratory analytical results are summarized along with historical data in the attached Table 1. Only constituents that have been detected in groundwater samples from the site are shown on the table – other VOCs have been analyzed for but never detected. Table 1 also compares the groundwater analytical results to “Regulatory Levels of Concern,” which are defined as either Tennessee General Use Groundwater Criteria (Rule 1200-4-3-03 as revised June 2008) or U.S. EPA’s Regional Screening Levels (for tap water) for Chemical Contaminants at Superfund Sites (RSLs, May 2013). If a Tennessee General Use Groundwater concentration has been established for a constituent, that concentration is cited as the Regulatory Level of Concern. If no Tennessee General Use Groundwater concentration has been set, the EPA RSL is cited. Both of these regulatory levels of concern are based on the groundwater being used for human consumption, which does not occur within the zone of contaminated groundwater at this site. If a constituent appears on neither the Tennessee nor EPA lists, its Regulatory Level of Concern is listed as Not Promulgated.

The following paragraphs describe the findings of the September groundwater monitoring events on a well-by-well basis:

AR-1 (Near Source Area, downgradient of RW-1)

The concentrations of VOCs detected in the September sample were similar to those detected in recent events, with the exception that toluene was detected at a concentration (0.434 mg/L) less than that reported in the March 2013 sample, and similar to concentrations reported in 2012. It is apparent that the higher concentration reported in March was an unusual event. Toluene concentrations in samples from this well have fluctuated around the MCL since early 2011, and are generally decreasing. Acetone has been undetected at concentrations well below its tap water RSL since September 2009.

RW-1 (Near Source Area)

The concentrations of VOCs detected in the September sample were generally lower than those detected in the most recent TriAD event (March 2013). Toluene was detected at 3.5 mg/L, lower than any previous event. Toluene was the only constituent detected at a concentration exceeding the regulatory level of concern. Acetone has not been reported in samples from this well since September 2010.

MW-1 (East of Source Area)

No VOCs were detected in the September sample from this well. No constituents have been detected at concentrations exceeding regulatory levels of concern in samples from this well during the last three monitoring events.

MW-2 (South of Source Area)

Six VOCs were detected in the September sample from this well, generally at concentrations similar to recent historical results. Benzene was the only VOC detected at a concentration above its MCL, as it has been since February 2008. Although acetone had been detected in the March sample for the first time since 2008, it was not detected in the September sample.

MW-3 (Northwest of Source Area)

Although detection limit issues continue to hinder comparisons to historical data, contaminant concentrations in the September sample indicate an increase in toluene concentration compared with the March results, and a return to typical toluene concentrations for samples from this well. However, acetone was reported at a concentration of 649 mg/L, significantly greater than any other acetone results from this well, and a concentration exceeding the regulatory level of concern. Other VOCs were not detected, likely due to elevated laboratory reporting limits. Free product had not been observed in well MW-3 since 2008, although concentrations of toluene close to its solubility limit indicated nearby pockets of free product.

On October 22, 2013, TriAD personnel retested MW-3 to try to confirm or refute the unusual September acetone result. Mr. Chris Lagan of TDEC observed the resampling. After collection of the sample, the dedicated pump was removed from the well and the well water inspected for the presence of free product. A slight sheen was observed on the water surface, but no measurable free product was present. After checking for free product, the well was purged dry in anticipation of possibly having to sample the well again if the anomalous September acetone result was verified. The results of the October resample show concentrations of VOCs similar to those observed in September 2012, the last time laboratory reporting limits were low enough to quantify all the historically detected VOCs. The October results also show acetone at a concentration (1.92 mg/L) similar to, and slightly less than, historical results. Although reported as an estimated concentration because of matrix interferences, the October acetone concentration, combined with the laboratory narrative report, provides ample evidence that the unusually high September acetone result was likely due to laboratory error. In fact, a review of both the September and October 2013 lab reports shows that the September sample, although exhibiting the same matrix interferences as the October sample (as have virtually all samples from MW-3),

was not subjected to the same rigorous lab analysis that the October sample was. The September sample was analyzed at only one dilution, 5,000x, whereas the October sample was analyzed at multiple dilutions, allowing discrimination of the acetone results from the matrix interferences. Although both the September and October results are presented in Table 1, it is clear that the September acetone result from MW-3 was incorrect and should be disregarded.

MW-4 (BGA School)

No VOCs were detected in the sample from this well during the September event. This is the twentieth consecutive event in which no VOCs linked to the ELMCO release were detected in this well. The only such VOC previously detected in samples from this well was toluene during the first two monitoring events in February and June 2008, at concentrations well below the regulatory level of concern. Considering the decline in free-product solvent and dissolved contaminant concentrations at the seep across the creek from this well, it seems highly unlikely that such VOCs will reappear in the future. The historical monitoring of this well has demonstrated that Liberty Creek acts as an effective hydraulic barrier to western migration of the groundwater contaminant plume.

MW-5 (Daniels Drive)

No VOCs were detected in the sample from this well during the September event, the eleventh consecutive event with no detected constituents. The last time a sample from this well contained a constituent exceeding a regulatory level of concern was December 2008. Considering the historical contaminant concentrations and potentiometric data, it seems very likely that the contamination that was previously found in samples from this well resulted from localized petroleum releases rather than the ELMCO solvent release.

MW-6 (Corpus Christi Chapel)

In accordance with the new groundwater monitoring schedule, this well was not sampled during the September 2013 event, and will not be sampled in future events unless directed by TDEC.

MW-7 (East of ELMCO building)

In accordance with the new groundwater monitoring schedule, this well was not sampled during the September 2013 event, and will not be sampled in future events unless directed by TDEC.

Evaluation of Potentiometric Data

Groundwater elevation data collected since February 2008 are presented in Table 2. A potentiometric map is included as Figure 1. The groundwater flow direction is similar to that measured previously. Flow is essentially radial from the vicinity of source area wells AR-1 and RW-1, which are set in the cutter-

fracture zone near the former tank farm. The groundwater gradient, combined with contaminant distribution data, shows that this area is acting as a recharge zone for the surrounding fractured bedrock aquifer, in which flow is to the north, west, and south from ELMCO's facility. The generally similar potentiometric surface at wells MW-1, MW-3, MW-5, MW-6, and MW-7 indicates a very low hydraulic gradient within the larger, fractured bedrock aquifer. Data collected during the September 2013 groundwater sampling event show that well MW-5 was hydraulically downgradient from wells MW-3 and MW-6. These relationships change from time to time as water levels fluctuate.

Conclusions and Recommendations

Groundwater data from site wells show that the groundwater contaminant plume originating from ELMCO is defined to regulatory levels of concern to the east and north and that Liberty Creek acts as an effective hydraulic barrier to westward contaminant flow. With the Harpeth River serving as the acknowledged limit to the south, the plume boundaries remain adequately delineated.

Data collected over the last several years also indicate that the plume size has decreased significantly since its discovery in 2007. Toluene has been the dominant contaminant in the plume since 2008, and acetone is now virtually gone. Acetone is routinely detectable only in samples from MW-3, which remains the most impacted of the monitoring wells, but seems to reflect only very localized conditions.

Samples from source-area wells AR-1 and RW-1 have shown significant decreases in toluene concentrations since the completion of vacuum extraction activities in 2009. Evaluation of the entire site, including surface water and seep data reported separately, indicates that the contaminant plume from the solvent release at ELMCO has decreased in size and now includes only a narrow zone between the source area at the former tank farm and the main seep area at Liberty Creek. This narrow area is related to the cutter-fracture zone that directed contaminant migration to the creek. The data indicate that this zone continues to hold presumably small, isolated pockets of heavy contamination (perhaps including free-product solvent) that are immobile but continue to act as a source of dissolved constituents such as those found at MW-3 and at the Main Seep in Liberty Creek.

The next groundwater sampling event is currently scheduled for March 2014. Please contact us if you require additional information.

Sincerely,

TriAD Environmental Consultants, Inc.



Chris Scott, P.G.
Senior Hydrogeologist



Dwight Hinch
Senior Project Manager

Attachments:

Figure 1 – Potentiometric Map

Table 1 – Groundwater Analytical Summary

Table 2 – Groundwater Elevation Data

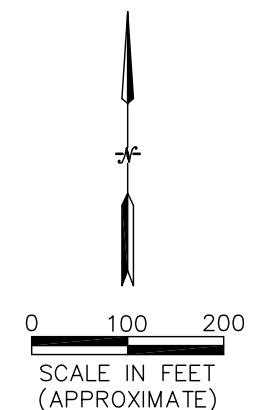
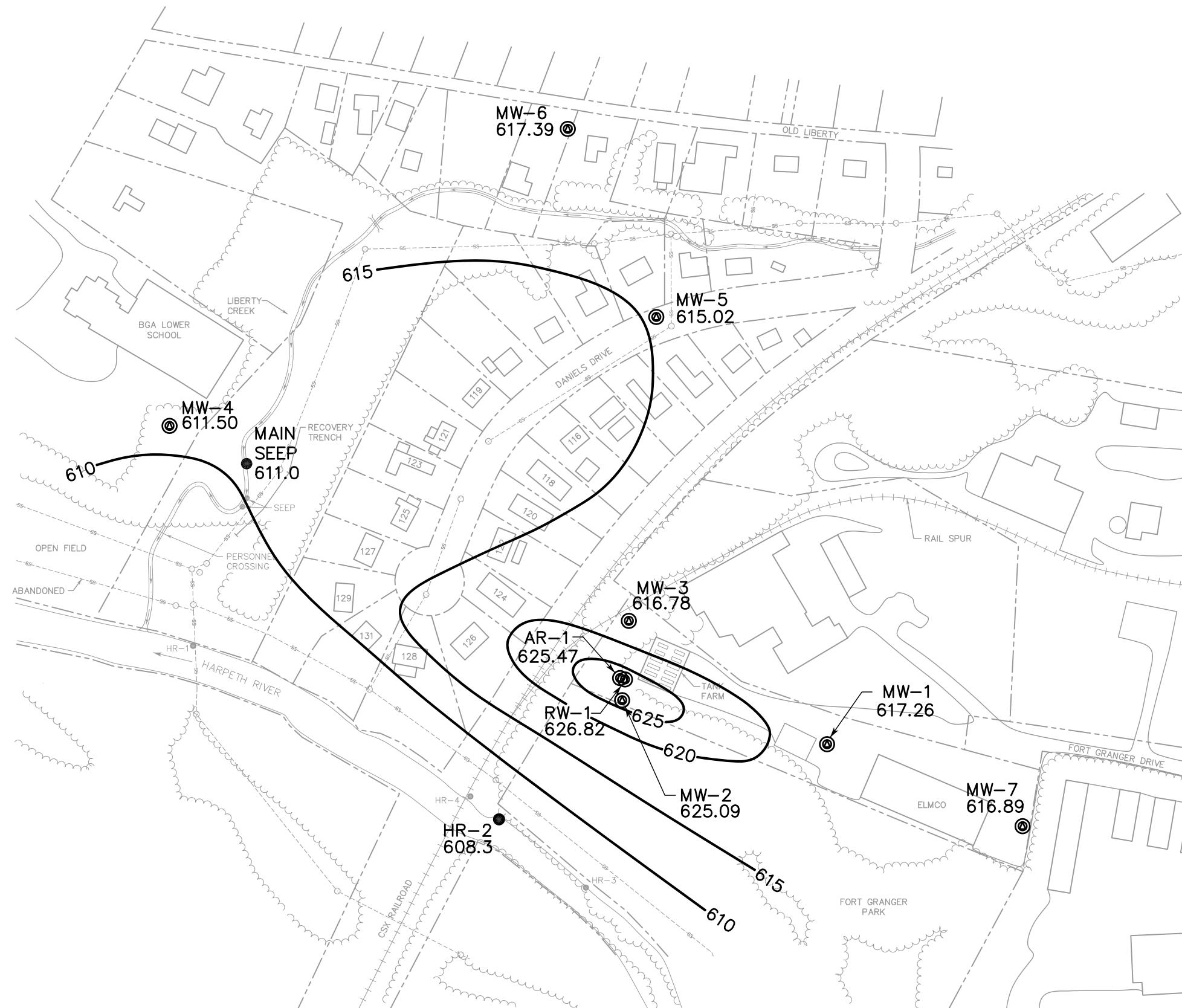
Attachment 1 - Groundwater Sampling Data Sheets

Attachment 2 - Groundwater Laboratory Report

cc: Bill Penny, Stites and Harbison
Kerry Mattox, ELMCO



POTENTIOMETRIC MAP



LEGEND

- ④ MONITORING WELL
- SEEP
- MANHOLE
- STRUCTURE
- VEGETATION
- SS----- SANITARY SEWER
- PROPERTY LINE (APPROXIMATE)
- 615 ----- POTENTIOMETRIC CONTOUR
- CONCRETE FORD

NOTE

BASE MAP ADAPTED FROM AERIAL PHOTOGRAPH
NOT VERIFIED BY SURVEY.

FIGURE 1
POTENTIOMETRIC MAP
SEPTEMBER 2013

SOLVENT RELEASE INVESTIGATION
EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: 1"=200' DR DWF CHK CMS REV TDH

PREPARED BY:

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PROJ: 07-ELM01-01 DATE: 08/09/13 SHEET 1 OF 1

TABLES

TABLE 1
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-1 ³												
		6/16/2010	9/21/2010	12/21/2010	3/24/2011	6/9/2011	9/13/2011	12/13/2011	3/21/2012	6/14/2012	9/5/2012	12/13/2012	3/26/2013	9/17/2013
Volatiles														
Acetone	12 ²	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	<0.0050
Benzene	0.005 ¹	NS	0.00545	NS	0.00382	NS	0.0150	NS	0.0203	NS	0.00272	NS	<0.0010	<0.0010
Carbon Disulfide	0.72 ²	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Di-isopropyl ether	NP	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR
1,4-Dichlorobenzene	0.075 ¹	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	NS	0.00381	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	NS	0.00144	NS	0.00109	NS	0.00295	NS	0.00409	NS	<0.0010	NS	0.00128	<0.0010
Methyl Ethyl Ketone (MEK)	4.9 ²	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	<0.0050
n-propylbenzene	NP	NS	0.00103	NS	<0.0010	NS	0.00188	NS	0.00266	NS	<0.0010	NS	<0.0010	<0.0010
Toluene	1 ¹	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Xylenes	10 ¹	NS	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	<0.0020
1,2,3-Trimethylbenzene	NP	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.087 ²	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Semi-volatiles														
1-Methylnaphthalene	NP	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA
2-Methylnaphthalene	NP	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA

Notes:

NP - Not Promulgated

NA - Not Analyzed

NR - Not Reported

NS - Not Sampled

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Samples collected by bailer.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-2 ³										
		6/20/2007 ⁴	9/19/2007	2/21/2008	6/3/2008	9/10/2008	12/18/2008	3/25/2009 ⁵	6/10/2009	9/3/2009 ⁶	12/10/2009	3/25/2010 ⁷
Volatiles												
Acetone	12 ²	360	100	0.059	<0.050	<0.050	0.860	<0.050	1.640	<0.050	1.510	<0.050
Benzene	0.005 ¹	<0.25	<0.10	0.046	0.052	0.0623	0.0515	0.059	0.0107	0.0465	0.00821	0.0158
Carbon Disulfide	0.72 ²	NR	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	NP	<0.25	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.25	<0.10	<0.0010	<0.0010	0.00305	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	<0.25	<0.10	0.026	0.022	0.0255	0.0488	0.0406	0.0114	0.0283	0.00958	0.0180
Isopropylbenzene(cumene)	0.39 ²	<0.25	<0.10	0.0064	0.0039	0.00276	0.00568	0.00799	0.00222	0.00525	0.00199	0.00412
Methyl Ethyl Ketone (MEK)	4.9 ²	<2.5	<1.0	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<2.5	<1.0	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	NP	<0.25	<0.10	0.0045	0.0015	<0.0010	0.00425	0.00471	0.00176	0.00339	0.00135	0.00279
Toluene	1 ¹	<1.2	<0.50	0.78	<0.0050	0.00101	2.000	0.00105	0.00493	0.0137	<0.0010	<0.0010
Xylenes	10 ¹	<0.75	<0.30	0.022	0.013	0.00997	0.0727	0.0292	0.00549	0.0197	0.00532	0.0108
1,2,3-Trimethylbenzene	NP	<0.25	<0.10	0.0081	0.0057	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.25	<0.10	0.0071	0.0052	0.00345	0.0124	0.0142	0.00468	0.00946	0.00389	0.00732
1,3,5-Trimethylbenzene	0.087 ²	<0.25	<0.10	0.0058	<0.0010	<0.0010	0.00236	0.00223	<0.0010	0.00146	<0.0010	0.00125
Semi-volatiles												
1-Methylnaphthalene	NP	NA	0.00012	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	0.00012	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Sample collected with bailer

⁵ Sample also contained sec-Butylbenzene at 0.00113 mg/L (no TGC or RSL) and Naphthalene at 0.00564 mg/L (exceeding RSL of 0.00014 mg/L but less than TDUST risk-based star

⁶ Sample also contained chloromethane at 0.00799 mg/L (less than RSL of 0.190 mg/L) and p-isopropyltoluene at 0.00134 mg/L (no RSL or TGC).

⁷ Sample also contained trans-1,3-dichloropropene at 0.00535 mg/L (less than RSL of 0.040 mg/L).

⁸ Sample also contained trans-1,3-dichloropropene at 0.00408 mg/L (less than RSL of 0.040 mg/L).

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-2 ³ (Cont'd)												
		6/16/2010	9/21/2010 ⁸	12/21/2010	3/23/2011	6/9/2011	9/13/2011	12/13/2011	3/21/2012	6/14/2012	9/6/2012	12/13/2012	3/26/2013	9/17/2013
Volatiles														
Acetone	12 ²	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	0.413	<0.0050
Benzene	0.005 ¹	NS	0.0143	NS	0.0168	NS	0.0109	NS	0.0144	NS	0.0166	NS	0.00764	0.0156
Carbon Disulfide	0.72 ²	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Di-isopropyl ether	NP	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR
1,4-Dichlorobenzene	0.075 ¹	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	NS	0.0130	NS	0.00883	NS	0.00131	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	NS	0.00341	NS	0.00528	NS	0.00366	NS	0.00247	NS	0.00474	NS	0.00268	0.00456
Methyl Ethyl Ketone (MEK)	4.9 ²	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	<0.0050
n-propylbenzene	NP	NS	0.00228	NS	0.00294	NS	0.00251	NS	0.00159	NS	0.00281	NS	0.00179	0.00316
Toluene	1 ¹	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	0.00197	NS	<0.0010	<0.0010
Xylenes	10 ¹	NS	0.00717	NS	0.00599	NS	0.00531	NS	0.00387	NS	0.0488	NS	<0.0030	0.00520
1,2,3-Trimethylbenzene	NP	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	NS	0.00601	NS	0.00981	NS	0.00677	NS	0.00432	NS	0.00764	NS	0.00526	0.00858
1,3,5-Trimethylbenzene	0.087 ²	NS	0.00103	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	0.00111	NS	<0.0010	0.00124
Semi-volatiles														
1-Methylnaphthalene	NP	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA
2-Methylnaphthalene	NP	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA

Notes:

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¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

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³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Sample collected with bailer

⁵ Sample also contained sec-Butylbenzene at 0.00113 mg/L (no TGC or RSL) and Naphthalene at 0.00564 mg/L (exceeding RSL of 0.00014 mg/L but less than TDUST risk-based standard for drinking water).

⁶ Sample also contained chloromethane at 0.00799 mg/L (less than RSL of 0.190 mg/L) and p-isopropyltoluene at 0.00134 mg/L (no RSL or TGC).

⁷ Sample also contained trans-1,3-dichloropropene at 0.00535 mg/L (less than RSL of 0.040 mg/L).

⁸ Sample also contained trans-1,3-dichloropropene at 0.00408 mg/L (less than RSL of 0.040 mg/L).

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-3 ³										
		10/1/2007	2/21/2008	6/3/2008	9/9/2008	12/18/2008 ⁹	3/25/2009 ¹⁰	6/10/2009	7/2/2009 ¹¹	9/3/2009 ¹²	12/9/2009 ¹³	3/25/2010 ¹⁴
Volatiles												
Acetone	12 ²	<25	NS	<2.5	NS	<50	2.770 ^E	<25	<25	<500 ^{RL1}	8.850	9.79 ^E
Benzene	0.005 ¹	<0.50	NS	<0.050	NS	0.0303	0.0309	0.0311	<0.500	0.0242	0.0258	0.0245
Carbon Disulfide	0.72 ²	NR	NS	NR	NS	0.00148	0.00187	0.00237	<0.500	<0.0010	0.00122	<0.0010
Di-isopropyl ether	NP	<0.50	NS	<0.050	NS	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.50	NS	<0.050	NS	<0.0010	<0.0010	<0.0010	<0.500	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	<0.50	NS	0.13	NS	0.152	0.211	0.124	<0.500	<0.0010	0.192	0.126
Isopropylbenzene(cumene)	0.39 ²	<0.50	NS	<0.050	NS	<0.0010	0.00116	0.00120	<0.500	<0.0010	0.00136	0.00148
Methyl Ethyl Ketone (MEK)	4.9 ²	<5.0	NS	0.87	NS	0.815	1.23 ^E	<25	<25	<500 ^{RL1}	2.330 ^E	1.140 ^E
4-Methyl-2-pentanone (MIBK)	1.0 ²	<5.0	NS	1.0 ¹⁶	NS	<0.010	0.402	<0.010	<5.0	0.279	0.228	0.924 ^E
n-propylbenzene	NP	<0.50	NS	<0.050	NS	<0.0010	<0.0010	0.00242	<0.500	<0.0010	0.00167	0.00169
Toluene	1 ¹	650	NS	200	NS	583	550	441	550	561	584 ^{B1}	387
Xylenes	10 ¹	<1.5	NS	0.52	NS	0.544	0.941	0.424	<1.5	<0.0030	0.989	0.676 ^E
1,2,3-Trimethylbenzene	NP	<0.50	NS	<0.050	NS	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.50	NS	<0.050	NS	0.00625	0.00761	0.00615	<0.500	0.00964	0.00951	0.00978
1,3,5-Trimethylbenzene	0.087 ²	<0.50	NS	<0.050	NS	0.00229	0.00200	0.00630	<0.500	0.0102	0.00261	0.00286
Semi-volatiles												
1-Methylnaphthalene	NP	<0.00010	NS	NA	NS	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	0.00016	NS	NA	NS	NA	NA	NA	NA	NA	NA	NA

Notes:

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NA - Not Analyzed

NR - Not Reported

NS - Not Sampled due to free product or sampling schedule

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁹ Sample also contained methylene chloride at a concentration of 0.0139 mg/L (exceeding the general use criteria of 0.005 mg/L)

¹⁰ Sample also contained 1,1-Dichloroethane at 0.00208 mg/L (less than the RSL of 0.0024 mg/L) and methylene chloride at 0.0118 mg/L (exceeding the TGC of 0.005 mg/L).

¹¹ Sample collected after vacuum extraction event performed June 18, 2009

¹² Sample also contained methylene chloride at 0.00909 mg/L (exceeding the TGC of 0.005 mg/L).

¹³ Sample also contained 1,1-dichloroethane at 0.00153 mg/L (less than the RSL of 0.0024 mg/L).

¹⁴ Sample also contained methylene chloride at 0.0133 mg/L (exceeding the TGC of 0.005 mg/L)

¹⁵ Sample also contained n-butylbenzene at 0.0155 mg/L (no TGC or RSL) and naphthalene at 0.00621 mg/L (exceeding RSL of 0.00014 mg/L but less than TDUST risk-based standard for c)

¹⁶ This exceedance was recorded after the RSL for MIBK was reduced in November 2011.

^E Semi-quantitative result - concentration exceeds the calibration range

^{RL1} Reporting limit raised due to sample matrix effects.

^{B1} Analyte was detected in the method blank. Concentration in sample is greater than 10x that found in method blank.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-3 ³ (Cont'd)													
		6/16/2010	9/22/2010 ¹⁵	12/21/2010	3/24/2011 ^{RL1}	6/9/2011	9/13/2011	12/13/2011	3/21/2012 ¹⁶	6/14/2012	9/6/2012 ¹⁷	12/13/2012	3/27/2013 ^{RL1}	9/18/2013 ^{RL1}	10/22/2013 ¹⁸
Volatiles															
Acetone	12 ²	NS	8.740^E	NS	<50.00	NS	<25	NS	5.150^E	NS	<50.00	NS	5.020	649	1.920 ^E
Benzene	0.005 ¹	NS	0.0300	NS	<1.00	NS	<0.500	NS	0.0274	NS	0.0283	NS	<0.100	<5.000	0.0159
Carbon Disulfide	0.72 ²	NS	<0.0010	NS	<1.00	NS	<0.500	NS	<0.0010	NS	0.00138	NS	<0.100	<5.000	0.00205
Di-isopropyl ether	NP	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	NS	<0.0010	NS	<1.00	NS	<0.500	NS	<0.0010	NS	<0.0010	NS	<0.100	<5.000	<0.0010
Ethylbenzene	0.7 ¹	NS	0.00397	NS	<1.00	NS	<0.500	NS	<1.00	NS	0.141	NS	0.226	<5.000	0.179
Isopropylbenzene(cumene)	0.39 ²	NS	<0.0010	NS	<1.00	NS	<0.500	NS	<1.00	NS	0.00353	NS	<0.100	<5.000	0.00344
Methyl Ethyl Ketone (MEK)	4.9 ²	NS	1.970^E	NS	<50.00	NS	<25	NS	2.190^E	NS	<50.00	NS	<5.000	<250.000	0.476
4-Methyl-2-pentanone (MIBK)	1.0 ²	NS	0.251	NS	<10.00	NS	<5.0	NS	<5.0	NS	0.491	NS	<1.000	<25.000	0.0746
n-propylbenzene	NP	NS	<0.0010	NS	<1.00	NS	<0.500	NS	0.00162	NS	0.00513	NS	<0.100	<5.000	0.00357
Toluene	1 ¹	NS	426	NS	552	NS	527	NS	576	NS	430	NS	134	484	425
Xylenes	10 ¹	NS	<0.0030	NS	<3.00	NS	1.640	NS	<3.00	NS	<3.00	NS	1.010	<10.000	1.190
1,2,3-Trimethylbenzene	NP	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	NS	0.0145	NS	<1.00	NS	<0.500	NS	0.0127	NS	0.0172	NS	<0.100	<5.000	0.0175
1,3,5-Trimethylbenzene	0.087 ²	NS	0.00756	NS	<1.00	NS	<0.500	NS	0.00965	NS	0.00458	NS	<0.100	<5.000	0.00471
Semi-volatiles															
1-Methylnaphthalene	NP	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA
2-Methylnaphthalene	NP	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA

Notes:

NP - Not Promulgated

NA - Not Analyzed

NR - Not Reported

NS - Not Sampled due to free product or sampling schedule

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁹ Sample also contained methlyene chloride at a concentration of 0.0139 mg/L (exceeding the general use criteria of 0.005 mg/L)

¹⁰ Sample also contained 1,1-Dichloroethane at 0.00208 mg/L (less than the RSL of 0.0024 mg/L) and methlyene chloride at 0.0118 mg/L (exceeding the TGC of 0.005 mg/L).

¹¹ Sample collected after vacuum extraction event performed June 18, 2009

¹² Sample also contained methylene chloride at 0.00909 mg/L (exceeding the TGC of 0.005 mg/L).

¹³ Sample also contained 1,1-dichloroethane at 0.00153 mg/L (less than the RSL of 0.0024 mg/L).

¹⁴ Sample also contained methylene chloride at 0.0133 mg/L (exceeding the TGC of 0.005 mg/L)

¹⁵ Sample also contained n-butylbenzene at 0.0155 mg/L (no TGC or RSL) and naphthalene at 0.00621 mg/L (exceeding RSL of 0.00014 mg/L but less than TDUST risk-based standard for drinking water)

¹⁶ Sample also contained methylene chloride at 0.00804 mg/L (exceeding the TGC of 0.005 mg/L) and trans-1,3-dichloropropene at 11.4 mg/L (exceeding the RSL of 0.00041 mg/L).

¹⁷ Sample also contained methylene chloride at 0.00533 mg/L (exceeding the TGC of 0.005 mg/L) and 1,1-dichloroethane at 0.00128 mg/L (less than the RSL of 0.0024 mg/L).

¹⁸ Results of resampling event performed due to unusual results of September 2013 analysis. Resampling showed September acetone results to be likely laboratory error.

^E Semi-quantitative result - concentration exceeds the calibration range

^{RL1} Reporting limit raised due to sample matrix effects.

^{B1} Analyte was detected in the method blank. Concentration in sample is greater than 10x that found in method blank.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-4 ³									
		2/21/2008	6/3/2008	9/10/2008	12/18/2008	3/24/2009	6/9/2009	9/2/2009	12/9/2009	3/24/2010	6/16/2010
Volatiles											
Acetone	12 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	0.005 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.72 ²	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00114 ⁴	<0.0010
Di-isopropyl ether	NP	<0.0010	<0.0010	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	NP	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 ¹	0.17	0.022	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 ¹	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
1,2,3-Trimethylbenzene	NP	<0.0010	<0.0010	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles											
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NP - Not Promulgated NA - Not Analyzed NR - Not Reported

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Air Blank contained 0.00541 mg/L carbon disulfide.

⁵ Sample also contained bromodichloromethane at 0.00026 mg/L and chloroform at 0.0164 mg/L.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-4 ³ (Cont'd)											
		9/21/2010	12/21/2010	3/23/2011	6/9/2011	9/13/2011 ⁵	12/13/2011	3/20/2012	6/14/2012	9/6/2012	12/13/2012	3/26/2013	9/18/2013
Volatiles													
Acetone	12 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050
Benzene	0.005 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.72 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
n-propylbenzene	NP	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 ¹	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0020
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles													
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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NA - Not Analyzed

NR - Not Reported

Bold - Detected at concentration

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Air Blank contained 0.00541 mg/L carbon disulfide.

⁵ Sample also contained bromodichloromethane at 0.00026 mg/L and chloroform at 0.0164 mg/L.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-5 ³									
		2/22/2008	6/3/2008	9/10/2008	12/18/2008	3/25/2009	6/10/2009	9/3/2009	12/10/2009	3/25/2010	6/16/2010
Volatiles											
Acetone	12 ²	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050
Benzene	0.005 ¹	0.009	0.013	0.0681	0.0179	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.72 ²	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	NP	<0.0010	<0.010	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.010	0.00214	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	0.0060	<0.010	0.0118	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	0.0012	<0.010	0.00296	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.0010	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	NP	<0.0010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 ¹	0.79	0.86	<0.0010	<0.0010	<0.0010	<0.0010	0.00166	<0.0010	<0.0010	0.0487
Xylenes	10 ¹	0.014	<0.030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0043
1,2,3-Trimethylbenzene	NP	0.0018	<0.010	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	0.0011	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles											
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-5 ³ (Cont'd)										
		9/22/2010	12/21/2010	3/24/2011	6/10/2011	9/14/2011	12/13/2011	3/21/2012	6/14/2012	9/6/2012	12/13/2012	3/27/2013
Volatiles												
Acetone	12 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050
Benzene	0.005 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.72 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
n-propylbenzene	NP	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 ¹	0.0128	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 ¹	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0020
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles												
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NP - Not Promulgated

NA - Not Analyzed

NR- Not Reported

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-6 ³									
		9/9/2008	12/18/2008	3/24/2009	6/9/2009	9/2/2009	12/9/2009	3/24/2010	6/16/2010	9/21/2010	12/21/2010
Volatiles											
Acetone	12 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	0.005 ¹	<0.0010	0.00374	<0.0010	0.00291	0.00360	0.00799	<0.0010	0.00174	0.00542	0.00155
Carbon Disulfide	0.72 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	<0.0010	0.00558	<0.0010	0.00238	0.00317	0.00832	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.39 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00174	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	NP	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00113	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 ¹	<0.0010	0.00107	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 ¹	<0.0030	0.00568	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	0.00213	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	0.00104	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles											
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NP - Not Promulgated

NA - Not Analyzed

NR - Not Reported NS - Not Sampled

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-6 ³ (Cont'd)									
		3/23/2011	6/9/2011	9/14/2011	12/13/2011	3/20/2012	6/14/2012	9/5/2012	12/13/2012	3/27/2013 ⁴	9/18/2013 ⁴
Volatiles											
Acetone	12 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	NS
Benzene	0.005 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Carbon Disulfide	0.72 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Di-isopropyl ether	NP	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Ethylbenzene	0.7 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Isopropylbenzene(cumene)	0.39 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	NS
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS
n-propylbenzene	NP	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Toluene	1 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Xylenes	10 ¹	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NS	NS
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NR	NR	NR	NR	NR	NS	NS
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	NS
Semi-volatiles											
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS

Notes:

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Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Well removed from routine monitoring as approved by TDEC

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-7 ³									
		9/9/2008	12/17/2008	3/24/2009	6/9/2009	9/2/2009	12/9/2009	3/24/2010	6/16/2010	9/21/2010	12/21/2010
Volatiles											
Acetone	12 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
Benzene	0.005 ¹	<0.0010	0.00191	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	0.00386	NS
Carbon Disulfide	0.72 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Di-isopropyl ether	NP	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,4-Dichlorobenzene	0.075 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Ethylbenzene	0.7 ¹	<0.0010	0.00208	<0.0010	0.00110	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Isopropylbenzene(cumene)	0.39 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	<0.010	NS
n-propylbenzene	NP	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Toluene	1 ¹	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Xylenes	10 ¹	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NS	<0.0030	NS
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Semi-volatiles											
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS

Notes:

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Bold - Detected at concentration above laboratory detection limit

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¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-7 ³ (Cont'd)								
		3/24/2011	6/9/2011	9/14/2011	12/13/2011	3/20/2012	6/14/2012	9/5/2012	12/13/2012	3/27/2013 ⁴
Volatiles										
Acetone	12 ²	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	NS
Benzene	0.005 ¹	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Carbon Disulfide	0.72 ²	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Di-isopropyl ether	NP	NR	NS	NR	NS	NR	NS	NR	NS	NS
1,4-Dichlorobenzene	0.075 ¹	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Ethylbenzene	0.7 ¹	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Isopropylbenzene(cumene)	0.39 ²	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	NS
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	NS
n-propylbenzene	NP	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Toluene	1 ¹	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Xylenes	10 ¹	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	NS	NS
1,2,3-Trimethylbenzene	NP	NR	NS	NR	NS	NR	NS	NR	NS	NS
1,2,4-Trimethylbenzene	0.015 ²	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
1,3,5-Trimethylbenzene	0.087 ²	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Semi-volatiles										
1-Methylnaphthalene	NP	NA	NS	NA	NS	NA	NS	NA	NS	NS
2-Methylnaphthalene	NP	NA	NS	NA	NS	NA	NS	NA	NS	NS

Notes:

NP - Not Promulgated

NA - Not Analyzed

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Bold - Detected at concentration above laboratory detection limit

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¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Well removed from routine monitoring as approved by TDEC

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	AR-1 ³											
		4/18/07 ⁴	10/1/07 ⁵	10/12/07 ⁶	2/21/2008	6/3/2008	9/10/2008	12/18/2008	3/24/09 ^{RL1}	6/10/09 ^{RL1}	7/2/09 ^{7RL1}	9/2/09 ^{8 RL1}	12/10/09 ^{RL1}
Volatiles													
Acetone	12 ²	13,000	14,000 (15,000)	1,900	960	1,200	1,100	1,560	33.80	26.70	177.00	<10	<0.050
Benzene	0.005 ¹	<1.0	<5.0	<5.0	<0.10	<1.0	0.0201	0.0102	<0.050	0.00642	<0.050	0.00621	0.00262
Carbon Disulfide	0.72 ²	NR	NR	NR	NR	<0.0010	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Di-isopropyl ether	NP	<1.0	<5.0	<5.0	<0.10	<1.0	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<1.0	<5.0	<5.0	<0.10	<1.0	0.00140	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	0.7 ¹	<1.0	<5.0	<5.0	0.42	<1.0	1.260	1.640	1.540	0.0409	1.260	1.800	1.380
Isopropylbenzene(cumene)	0.39 ²	<1.0	<5.0	<5.0	<0.10	<1.0	0.00946	0.0156	<0.050	0.0150	<0.050	0.0176	0.0127
Methyl Ethyl Ketone (MEK)	4.9 ²	11	<50	<50	<1.0	<10	<25	5.420¹⁰	<2.500	0.124	<2.5	0.115	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<10	<50	<50	<1.0	<10	0.0266	<0.0100	<0.500	<0.010	0.888	0.0959	<0.010
n-propylbenzene	NP	<1.0	<5.0	<5.0	<0.10	<1.0	0.00710	0.0125	0.0125	0.0115	<0.050	0.0115	0.00881
Toluene	1 ¹	560	120 (540)	390	330	160	395	414	188	9.82	246	163	50.80
Xylenes	10 ¹	<3.0	<15	<15	2.0	<3.0	5.9	8.740	8.450	0.277	6.640	9.940	7.570
1,2,3-Trimethylbenzene	NP	<1.0	<5.0	<5.0	<0.10	<1.0	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<1.0	<5.0	<5.0	<0.10	<1.0	0.0126	0.0233	<0.050	0.0170	<0.050	0.0199	0.0117
1,3,5-Trimethylbenzene	0.087 ²	<1.0	<5.0	<5.0	<0.10	<1.0	0.00461	0.00969	<0.050	0.00710	<0.050	0.00772	0.00531
Semi-volatiles													
1-Methylnaphthalene	NP	NA	<0.00010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	NA	<0.00010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NP - Not Promulgated NA - Not Analyzed NR - Not Reported

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008. Well converted from open borehole to screened well in August 2010.

⁴ Sample collected by bailer

⁵ Sample collected with both bailer and low-flow methods. Parentheses indicate bailer results.

⁶ Sample collected using low-flow methods after purging well dry and allowing to recover.

⁷ Sample collected after vacuum extraction event performed on June 17, 2009

⁸ Sample also contained p-Isopropyltoluene at 0.00130 mg/L (no TGC or RSL).

⁹ Sample also contained sec-butylbenzene at 0.0868 mg/L (no TGC or RSL).

¹⁰ This exceedance was recorded after the RSL for MEK was reduced in November 2011.

RL1 - Reporting limit raised due to sample matrix interferences

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	AR-1 ³ (Cont'd)													
		3/25/10 ^{RL1}	6/16/10 ^{RL1}	9/22/10 ^{9 RL1}	12/21/10 ^{RL1}	3/24/11 ^{RL1}	6/9/2011	9/13/2011	12/13/2011	3/21/2012	6/14/2012	9/6/2012	12/13/2012	3/26/2013 ^{RL1}	9/18/2013 ^{RL1}
Volatiles															
Acetone	12 ²	<0.500	<0.500	<1.0	<1.0	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.025
Benzene	0.005 ¹	<0.010	<0.010	0.0780	<0.020	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.0050
Carbon Disulfide	0.72 ²	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.0050
Di-isopropyl ether	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.0050
Ethylbenzene	0.7 ¹	0.921	1.060	0.267	1.660	0.134	0.772	0.192	0.242	0.079	0.0487	0.0237	0.0546	0.0433	0.0121
Isopropylbenzene(cumene)	0.39 ²	0.0113	<0.010	0.0952	<0.020	<0.010	0.00774	0.0114	0.00731	0.01270	0.0152	0.0156	0.0144	<0.010	0.00603
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.500	<0.500	<1.0	<1.0	<0.500	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.250	
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.100	<0.100	<0.200	<0.200	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.100	<0.0250	
n-propylbenzene	NP	<0.010	<0.010	<0.020	<0.020	<0.010	0.00336	0.00672	0.00432	0.00783	0.00867	0.00973	0.00841	<0.010	<0.0050
Toluene	1 ¹	28.30	66.40	23.70	47.00	1.220	7.980	0.199	3.520	0.442	0.600	0.421	0.890	2.950	0.434
Xylenes	10 ¹	3.830	4.680	1.440	10.400	1.890	5.380	5.740	4.520	4.390	4.670	6.000	4.070	1.990	1.250
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	0.0100	<0.010	0.0858	<0.020	<0.010	0.00530	0.00822	0.00558	0.00816	0.00926	0.00912	0.00809	<0.010	<0.0050
1,3,5-Trimethylbenzene	0.087 ²	<0.010	<0.010	0.0802	<0.020	<0.010	0.00331	0.00503	0.00316	0.00470	0.00523	0.00562	0.00452	<0.010	<0.0050
Semi-volatiles															
1-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	NP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:

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NA - Not Analyzed

NR - Not Reported

Bold - Detected at concentration above laboratory detection limit

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¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

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⁶ Sample collected using low-flow methods after purging well dry and allowing to recover.

⁷ Sample collected after vacuum extraction event performed on June 17, 2009

⁸ Sample also contained p-Isopropyltoluene at 0.00130 mg/L (no TGC or RSL).

⁹ Sample also contained sec-butylbenzene at 0.0868 mg/L (no TGC or RSL).

RL1 - Reporting limit raised due to sample matrix interferences

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	RW-1 ³										
		9/19/2007 ⁴	10/12/2007 ⁷	2/21/2008	6/3/2008	9/10/2008	12/18/2008 ⁸	3/25/2009	6/10/2009	7/2/2009 ⁹	9/2/2009	12/10/2009
Volatiles												
Acetone	12 ²	3.8	430	< 0.050	<2.5	<25	15.8	4.62	0.0745	98.4	<10 ^{RL1}	<0.050
Benzene	0.005 ¹	<0.050	<5.0	0.0016	<0.050	0.0114	0.00431	0.00275	0.00186	<0.100	0.00650	0.00170
Carbon Disulfide	0.72 ²	NR	NR	NR	NR	0.00159	0.0010	<0.0010	<0.0010	<0.100	<0.0010	<0.0010
Di-isopropyl ether	NP	<0.050	<5.0	0.0019	<0.050	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 ¹	<0.050	<0.50	<0.0010	<0.050	0.00198	<0.0010	<0.0010	<0.0010	<0.100	<0.0010	<0.0010
Ethylbenzene	0.7 ¹	0.91	2.9	0.20	0.45	1.280	1.630	1.100	0.892	1.820	2.560	1.660
Isopropylbenzene(cumene)	0.39 ²	<0.050	<5.0	0.0036	<0.050	0.0128	0.0126	0.0115	0.00723	<0.100	0.0218	0.0159
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.050	<5.0	<0.010	<0.50	0.151	<0.0500	0.0540	<0.050	<5.0	0.0830	<0.050
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.50	<5.0	<0.010	<0.50	0.0783	<0.0100	0.0799	<0.010	<1.0	0.0396	<0.010
n-propylbenzene	NP	<0.050	<5.0	<0.010	<0.050	0.00708	0.00980	0.00904	0.00548	<0.100	<0.0010	0.0118
Toluene	1 ¹	9.1	180	4.4	10	238	282	75.3	70.7	276	223	74.80
Xylenes	10 ¹	3.6	15	0.65	1.8	5.960	9.440	6.300	4.160	9.540	14.800	9.010
1,2,3-Trimethylbenzene	NP	<0.050	<5.0	<0.010	<0.050	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 ²	<0.050	<5.0	<0.010	<0.050	0.00853	0.0201	0.013	0.00726	<0.100	0.0184	0.0110
1,3,5-Trimethylbenzene	0.087 ²	<0.050	<5.0	<0.010	<0.050	0.00415	0.00875	0.00616	0.00305	<0.100	0.00838	0.00571
Semi-volatiles												
1-Methylnaphthalene	NP	0.00017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NP	0.00017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NP - Not Promulgated NA - Not Analyzed NR - Not Reported

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Sample collected by bailer

⁷ October 2007 sample collected using low-flow methods after purging well dry and allowing to recover.

⁸ Sample also contained n-butylbenzene at 0.00124 mg/L (no TGC or RSL).

⁹ Sample collected after vacuum extraction event performed June 16, 2009

RL¹ Reporting limit raised due to sample matrix effects.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
Egyptian Laquer Manufacturing Company
All concentrations in mg/L

Constituent	Regulatory Level of Concern	RW-1 ³ (Cont'd)													
		3/25/2010	6/16/2010	9/22/2010	12/21/2010	3/24/2011	6/9/2011	9/14/2011	12/13/2011	3/21/2012	6/14/2012	9/5/2012	12/13/2012	3/27/2013 ^{RL1}	9/18/2013 ^{RL1}
Volatiles															
Acetone	12 ²	<0.500	<0.500	0.0654	NS	NS	<1.00	NS	NS	NS	NS	NS	<0.250	<0.250	
Benzene	0.005 ¹	<0.010	<0.010	<0.0010	NS	NS	<0.020	NS	NS	NS	NS	NS	<0.0050	<0.050	
Carbon Disulfide	0.72 ²	<0.010	<0.010	<0.0010	NS	NS	<0.020	NS	NS	NS	NS	NS	<0.0050	<0.050	
Di-isopropyl ether	NP	NR	NR	NR	NS	NS	NR	NS	NS	NS	NS	NS	NR	NR	
1,4-Dichlorobenzene	0.075 ¹	<0.010	<0.010	<0.0010	NS	NS	<0.020	NS	NS	NS	NS	NS	<0.0050	<0.050	
Ethylbenzene	0.7 ¹	1.100	0.913	0.800	NS	NS	2.150	NS	NS	NS	NS	NS	1.050	0.624	
Isopropylbenzene(cumene)	0.39 ²	0.0145	<0.010	0.00944	NS	NS	0.0246	NS	NS	NS	NS	NS	0.0282	<0.050	
Methyl Ethyl Ketone (MEK)	4.9 ²	<0.500	<0.500	<0.500	NS	NS	<1.00	NS	NS	NS	NS	NS	<0.250	<2.500	
4-Methyl-2-pentanone (MIBK)	1.0 ²	<0.100	<0.100	<0.100	NS	NS	<0.200	NS	NS	NS	NS	NS	<0.050	<0.250	
n-propylbenzene	NP	<0.010	<0.010	0.00572	NS	NS	<0.020	NS	NS	NS	NS	NS	0.0186	<0.050	
Toluene	1 ¹	48.90	35.00	38.900	NS	NS	57.100	NS	NS	NS	NS	NS	16.300	3.500	
Xylenes	10 ¹	4.440	4.360	4.450	NS	NS	11.800	NS	NS	NS	NS	NS	11.800	9.500	
1,2,3-Trimethylbenzene	NP	NR	NR	NR	NS	NS	NR	NS	NS	NS	NS	NS	NR	NR	
1,2,4-Trimethylbenzene	0.015 ²	<0.010	<0.010	0.00714	NS	NS	<0.020	NS	NS	NS	NS	NS	0.0129	<0.050	
1,3,5-Trimethylbenzene	0.087 ²	<0.010	<0.010	0.00659	NS	NS	<0.020	NS	NS	NS	NS	NS	0.00820	<0.050	
Semi-volatiles															
1-Methylnaphthalene	NP	NA	NA	NA	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	
2-Methylnaphthalene	NP	NA	NA	NA	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	

Notes:

NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

¹ Tennessee General Use Groundwater Criteria (TGC), June 2008

² USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), May 2013 (for tap water)

³ All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

⁴ Sample collected by bailer

⁷ October 2007 sample collected using low-flow methods after purging well dry and allowing to recover.

⁸ Sample also contained n-butylbenzene at 0.00124 mg/L (no TGC or RSL).

⁹ Sample collected after vacuum extraction event performed June 16, 2009

^{RL1} Reporting limit raised due to sample matrix effects.

TABLE 2
GROUNDWATER ELEVATION DATA
EGYPTIAN LACQUER SOLVENT RELEASE
FRANKLIN, TENNESSEE

Well	TOC Elevation	Water Level Elevation											
		2/12/2008	6/3/2008	9/9/2008	10/10/2008	12/17-18/2008	3/24-25/2009	6/9-10/2009	7/2/2009	9/2-3/2009	12/9-10/2009	3/24-25/2010	6/16/2010
MW-1	676.05	617.45	617.34	616.13	616.30	618.44	617.75	616.95	NM	615.49	618.10	618.16	616.01
MW-2	666.80	623.50	618.07 ¹	623.22	623.14	623.67	624.60	624.98	NM	623.89	624.60	625.42	624.91
MW-3	649.03	617.08	617.31	615.79	615.64	618.45	617.67	616.79	615.14	615.40	616.13	618.02	618.05
MW-4	632.25	611.36	612.15	610.61	NM	612.08	611.10	610.89	NM	610.53	616.11	611.97	612.10
MW-5	638.27	617.91	617.21	617.01	617.06	618.89	617.21	616.57	NM	615.22	618.36	618.01	616.64
MW-6	633.28	No Well	No Well	616.14	617.16	618.96	617.57	616.84	NM	615.22	619.79	618.34	618.46
MW-7	679.70	No Well	No Well	616.11	616.26	618.58	617.71	617.03	NM	615.54	617.87	618.09	616.12
AR-1	664.82	625.63	625.82	626.02	625.87	626.02	625.84	625.81	626.11	625.84	625.83	625.93	626.02
RW-1	665.27	627.15	627.06	626.07	625.98	626.40	626.30	626.36	626.37	626.26	626.31	626.36	626.43

Well	TOC Elevation	Water Level Elevation											
		9/21-22/2010	12/21/2010	3/23/2011	6/9/2011	9/13-14/2011	12/13/2011	3/20/2012	6/14/2012	9/5/2012	12/13/2012	3/26/2013	9/17/2013
MW-1	676.05	615.81	618.01	617.22	616.49	617.84	618.12	619.69	616.11	617.03	618.32	620.27	617.26
MW-2	666.80	624.41	624.85	625.29	624.77	624.45	625.27	626.12	624.01	623.77	625.63	626.67	625.09
MW-3	649.03	615.49	616.11	617.01	616.11	617.68	616.17	619.50	615.88	617.10	616.50	619.57	616.78
MW-4	632.25	610.47	611.11	611.15	610.91	610.90	610.89	612.80	610.80	611.43	611.00	613.24	611.50
MW-5	638.27	615.61	615.11	616.85	615.75	616.89	615.17	617.52	616.10	615.19	615.55	617.74	615.02
MW-6	633.28	615.89	617.31	617.55	616.77	617.57	617.35	619.22	616.54	617.33	617.63	NM	617.39
MW-7	679.70	615.77	617.30	617.69	617.35	617.26	617.57	618.80	617.13	616.77	617.77	NM	616.89
AR-1	664.82	625.73	625.99	626.17	625.73	625.90	626.01	626.17	625.67	625.69	626.02	626.29	625.47
RW-1	665.27	626.24	NM	NM	NM	626.44	NM	NM	NM	NM	NM	627.29	626.82

Notes:

All elevations in feet relative to mean sea level

Liberty Creek Main Seep elevation 611.0

Harpeth River Seep 2 (HR-2) elevation 608.3

No Well - Well not installed as of that date

NM - Water level not measured

¹ MW-2 water level elevation for 6/3/08 may represent a field measurement error

ATTACHMENT 1
GROUNDWATER SAMPLING DATA SHEETS



TriAD Environmental Consultants
Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-1

Date: 9/17/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 80F, clear

Well Depth 79.6 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 58.79 ft.(w.r.t. TOC) @ 0855 Well Type flush mount
Water Column Length 20.81 ft. GW Elevation 617.26 ft.
TOC Elevation 676.05 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 1256 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge @ 1356 Ended Purge @ 1421
Maximum Drawdown (ft.) 0.3

Pump Intake Level (w.r.t. TOC (ft.) 70

Began collecting samples @: 1425

Completed collecting samples @: 1425

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/17/13	1401	0.8154	851.0	7.41	17.27	0.49	-173	1.25	0.25
9/17/13	1411	0.8228	743.7	7.45	16.74	0.10	-245	3.75	0.25
9/17/13	1421	0.7383	724.0	7.46	16.67	0.07	-270	5.25	0.25
9/17/13									
9/17/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/17/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-1

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-2

Date: 9/17/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 80F, clear

Well Depth 80.5 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 41.71 ft.(w.r.t. TOC) @ 0905 Well Type PVC stick up
Water Column Length 38.79 ft. GW Elevation 625.09 ft.
TOC Elevation 666.80 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 1256 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge @ 1443 Ended Purge @ 1520
Maximum Drawdown (ft.) 0.3

Pump Intake Level (w.r.t. TOC (ft.) 70

Began collecting samples @: 1525

Completed collecting samples @: 1525

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/17/13	1456	4.037	625.4	7.26	16.74	1.44	-115	3.25	0.25
9/17/13	1510	18.31	611.6	7.22	16.74	0.61	-129	6.75	0.25
9/17/13	1520	14.23	609.3	7.21	16.67	0.53	-131	9.25	0.25
9/17/13									
9/17/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/17/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-2

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-3

Date: 9/18/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 85 F, clear

Well Depth 39.9 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 32.25 ft.(w.r.t. TOC) @ 1040 Well Type PVC stick up
Water Column Length 7.65 ft. GW Elevation 616.78 ft.
TOC Elevation 649.03 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 899 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge@ 1100 Ended Purge @ 1108
Maximum Drawdown (ft.) 0.65

Pump Intake Level (w.r.t. TOC (ft.) 33

Began collecting samples @: 1110

Completed collecting samples @: 1110

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/18/13	1104	2.56	785.4	7.56	19.52	6.59	4	1	0.25
9/18/13	1108	8.69	654.2	7.23	18.69	1.5	-5	2	0.25
9/18/13									
9/18/13									
9/18/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/18/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-3

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Water could not be purged without exceeding 0.3 ft drawdown limit for low flow purge. Pumping rate was increased and water was purged regardless of drawdown until water level reached pump intake. A sample was collected after purging approximately one equipment volume before the water level reached the elevation of the pump intake.

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-4

Date: 9/18/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 75F, clear

Well Depth 33.2 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 20.75 ft.(w.r.t. TOC) @ 1005 Well Type flush mount
Water Column Length 12.45 ft. GW Elevation 611.50 ft.
TOC Elevation 632.25 ft. (TOC-Static Water Level)

Approximate Equipment Well Purge Method: Low-flow, Bladder
Volume 870 mL Began Purge @ 1006 Ended Purge @ 1028
(Total volume of pump, meter flow cell and Maximum Drawdown (ft.) 0.3
all tubing)

Pump Intake Level (w.r.t. TOC (ft.) 30

Began collecting samples @: 1030 Completed collecting samples @: 1030

GROUNDWATER QUALITY PARAMETERS									
Date	Time	Turbidity (NTU)	Conductivity ($\mu\text{s}/\text{cm}$)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/18/13	1010	16.93	356.87	7.25	18.96	2.4	15	1	0.25
9/18/13	1020	21.54	320.5	7.24	18.25	0.25	0	3.5	0.25
9/18/13	1028	28.56	318.47	7.23	17.85	0.18	-10	5.5	0.25
9/18/13									
9/18/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/18/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-4

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-5 PURGE

Date: 9/17/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 70F, clear

Well Depth 47.0 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 23.25 ft.(w.r.t. TOC) @ 0700 Well Type flush mount
Water Column Length 23.75 ft. GW Elevation 615.02 ft.
TOC Elevation 638.27 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 995 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge @ 800 Ended Purge @ 825
Maximum Drawdown (ft.) 22.54

Pump Intake Level (w.r.t. TOC (ft.) 43

Began collecting samples @: _____

Completed collecting samples @: _____

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity ($\mu\text{s}/\text{cm}$)	pH	Temp ($^{\circ}\text{C}$)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/17/13	812	30.15	435.6	7.12	17.4	1.36	21	6	0.5
9/17/13	820	39.12	412.5	7.23	16.9	3.18	10	10	0.5
9/17/13	825	40.58	410.3	7.25	16.9	3.23	5	12.5	0.5
9/17/13									
9/17/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/17/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-5 PURGE

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Purging water from the well was not possible without immediately exceeding the 0.3 ft drawdown limit for low flow purge. Purging proceeded, regardless of drawdown, until the water level was within 4 feet of the top of the well screen. Purging was then halted and the well was allowed to overnight.

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-5 SAMPLE

Date: 9/18/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 70F, clear

Well Depth 47.0 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 21.83 ft.(w.r.t. TOC) @ 0800 Well Type flush mount
Water Column Length 25.17 ft. GW Elevation 616.44 ft.
TOC Elevation 638.27 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 955 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge @ 805 Ended Purge @ 825
Maximum Drawdown (ft.) 2.1

Pump Intake Level (w.r.t. TOC (ft.) 43

Began collecting samples @: 0830

Completed collecting samples @: 0830

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/18/13	815	33.56	753.2	6.82	18.54	4.96	20	2.5	0.25
9/18/13	820	43.21	684.21	6.92	17.42	3.86	12.3	4.75	0.25
9/18/13	825	41.25	674.28	7.05	17.12	3.59	8	7.25	0.25
9/18/13									
9/18/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/18/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-5 SAMPLE

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

This sample was collected the morning following purging of MW-5. See purging field sheet for details.

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. AR-1

Date: 9/18/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 80F, clear

Well Depth 53.0 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 39.35 ft.(w.r.t. TOC) @ 0900 Well Type PVC stick up
Water Column Length 13.65 ft. GW Elevation 625.47 ft.
TOC Elevation 664.82 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 995 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge @ 934 Ended Purge @ 1004
Maximum Drawdown (ft.) 0.3

Pump Intake Level (w.r.t. TOC (ft.) 43

Began collecting samples @: 1005

Completed collecting samples @: 1005

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/18/13	946	5.765	187.5	7.21	16.96	0.19	-154	3	0.25
9/18/13	955	6.982	261.7	7.60	16.70	0.00	-209	4.75	0.25
9/18/13	1004	11.59	288.4	7.67	16.72	0.00	-219	7.25	0.25
9/18/13									
9/18/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/18/13

Low-Flow Groundwater Data Sampling Sheet

Well No: AR-1

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. RW-1

Date: 9/18/13

Landfill # NA

Personnel: J. Unkefer

Weather Conditions 80F, clear

Well Depth 48.2 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 39.00 ft.(w.r.t. TOC) @ 0830 Well Type PVC stick up
Water Column Length 9.20 ft. GW Elevation 626.27 ft.
TOC Elevation 665.27 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 976 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder
Began Purge @ 848 Ended Purge @ 919
Maximum Drawdown (ft.) 0.3

Pump Intake Level (w.r.t. TOC (ft.) 41

Began collecting samples @: 0920

Completed collecting samples @: 0920

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
9/18/13	902	0.5988	489	6.51	16.85	0.05	-111	3.5	0.25
9/18/13	910	0.5985	488.5	6.5	16.96	0.04	-113	5.5	0.25
9/18/13	919	0.2839	490.4	6.49	17.09	0.03	-113	7.75	0.25
9/18/13									
9/18/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 9/18/13

Low-Flow Groundwater Data Sampling Sheet

Well No: RW-1

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	2	40 mL	HCl	



TriAD Environmental Consultants Low-Flow Groundwater Sampling Data Sheet

Site Name: Egyptian Lacquer

Project No. 07-ELM01-01

Well No. MW-3

Date: 10/22/13

Landfill # NA

Personnel: J. Unkefer, Cwilliams

Weather Conditions 58F, partly cloudy

Well Depth 42.0 ft.(w.r.t. TOC) Well Diameter 2 in
Static Water Level 31.60 ft.(w.r.t. TOC) @ 1234 Well Type PVC stick up
Water Column Length 10.40 ft. GW Elevation 617.43 ft.
TOC Elevation 649.03 ft. (TOC-Static Water Level)

Approximate Equipment

Volume 899 mL
(Total volume of pump, meter flow cell and all tubing)

Well Purge Method: Low-flow, Bladder

Began Purge@ 1250 Ended Purge @ 1302
Maximum Drawdown (ft.) 0.95

Pump Intake Level (w.r.t. TOC (ft.) 33

Began collecting samples @: 1310

Completed collecting samples @: 1310

GROUNDWATER QUALITY PARAMETERS

Date	Time	Turbidity (NTU)	Conductivity (µs/cm)	pH	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Total Volume (L)	Pumping Rate (L/min)
10/22/13	1256	36.03	54.55	6.03	21.48	27.99	258	1	0.17
10/22/13	1302	19.19	848.6	6.75	15.29	2.55	45	2	0.17
10/22/13									
10/22/13									
10/22/13									

Instruments used in measuring groundwater quality parameters:

Troll 9500 Multimeter

Calibration Date: 10/22/13

Low-Flow Groundwater Data Sampling Sheet

Well No: MW-3

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data:

This sample was collected as a re-sample to verify analyte levels. Water could not be purged without exceeding 0.3 ft drawdown limit for low flow purge. Pumping rate was increased and water was purged regardless of drawdown until water level reached pump intake. A sample was collected after purging approximately two equipment volumes before the water level reached the elevation of the pump intake. Purge water had a sheen and smelled of toluene.

Water Sampling Information				
Analytes	Number of Containers	Size of Containers	Preservatives	Sample #
USEPA 8260B Volatiles	3	40 mL	HCl	MW-3

ATTACHMENT 2
GROUNDWATER LABORATORY REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive
Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-35853-1

Client Project/Site: ELMCO - 07-ELM01-01

For:

Triad Environmental Consultants
207 Donelson Pike
Nashville, Tennessee 37214

Attn: Mr. Chris Scott

Heather Baker

Authorized for release by:

10/2/2013 12:03:33 PM

Heather Baker, Project Manager I

(615)301-5043

heather.baker@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	24
QC Association	29
Chronicle	30
Method Summary	32
Certification Summary	33
Chain of Custody	34
Receipt Checklists	36

Sample Summary

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-35853-1	MW-1	Water	09/17/13 14:25	09/20/13 15:50
490-35853-2	MW-2	Water	09/17/13 15:25	09/20/13 15:50
490-35853-3	MW-3	Water	09/18/13 11:10	09/20/13 15:50
490-35853-4	MW-4	Water	09/18/13 10:30	09/20/13 15:50
490-35853-5	MW-5	Water	09/18/13 08:30	09/20/13 15:50
490-35853-6	AR-1	Water	09/18/13 10:05	09/20/13 15:50
490-35853-7	RW-1	Water	09/18/13 09:20	09/20/13 15:50
490-35853-8	FB	Water	09/18/13 16:00	09/20/13 15:50
490-35853-9	Trip Blank	Water	09/18/13 00:01	09/20/13 15:50

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TestAmerica Nashville

Case Narrative

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Job ID: 490-35853-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-35853-1

Comments

No additional comments.

Receipt

The samples were received on 9/20/2013 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

Except:

The following sample(s) was received with headspace in the sample vial: AR-1 (490-35853-6).

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: MW-3 (490-35853-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 110755.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: AR-1 (490-35853-6), RW-1 (490-35853-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The method blank for preparation batch 110755 contained 123-Trichlorobenzene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-1

Date Collected: 09/17/13 14:25

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 16:52		1
1,1,1-Trichloroethane	ND		1.00		ug/L		09/30/13 16:52		1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 16:52		1
1,1,2-Trichloroethane	ND		1.00		ug/L		09/30/13 16:52		1
1,1-Dichloroethane	ND		1.00		ug/L		09/30/13 16:52		1
1,1-Dichloroethene	ND		1.00		ug/L		09/30/13 16:52		1
1,1-Dichloropropene	ND		1.00		ug/L		09/30/13 16:52		1
1,2,3-Trichlorobenzene	ND		1.00		ug/L		09/30/13 16:52		1
1,2,3-Trichloropropane	ND		1.00		ug/L		09/30/13 16:52		1
1,2,4-Trichlorobenzene	ND		1.00		ug/L		09/30/13 16:52		1
1,2,4-Trimethylbenzene	ND		1.00		ug/L		09/30/13 16:52		1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L		09/30/13 16:52		1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		09/30/13 16:52		1
1,2-Dichlorobenzene	ND		1.00		ug/L		09/30/13 16:52		1
1,2-Dichloroethane	ND		1.00		ug/L		09/30/13 16:52		1
1,2-Dichloropropane	ND		1.00		ug/L		09/30/13 16:52		1
1,3,5-Trimethylbenzene	ND		1.00		ug/L		09/30/13 16:52		1
1,3-Dichlorobenzene	ND		1.00		ug/L		09/30/13 16:52		1
1,3-Dichloropropane	ND		1.00		ug/L		09/30/13 16:52		1
1,4-Dichlorobenzene	ND		1.00		ug/L		09/30/13 16:52		1
2,2-Dichloropropane	ND		1.00		ug/L		09/30/13 16:52		1
2-Butanone (MEK)	ND		50.0		ug/L		09/30/13 16:52		1
2-Chlorotoluene	ND		1.00		ug/L		09/30/13 16:52		1
2-Hexanone	ND		5.00		ug/L		09/30/13 16:52		1
4-Chlorotoluene	ND		1.00		ug/L		09/30/13 16:52		1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L		09/30/13 16:52		1
Acetone	ND		5.00		ug/L		09/30/13 16:52		1
Benzene	ND		1.00		ug/L		09/30/13 16:52		1
Bromobenzene	ND		1.00		ug/L		09/30/13 16:52		1
Bromochloromethane	ND		1.00		ug/L		09/30/13 16:52		1
Bromodichloromethane	ND		1.00		ug/L		09/30/13 16:52		1
Bromoform	ND		1.00		ug/L		09/30/13 16:52		1
Bromomethane	ND		1.00		ug/L		09/30/13 16:52		1
Carbon disulfide	ND		1.00		ug/L		09/30/13 16:52		1
Carbon tetrachloride	ND		1.00		ug/L		09/30/13 16:52		1
Chlorobenzene	ND		1.00		ug/L		09/30/13 16:52		1
Chlorodibromomethane	ND		1.00		ug/L		09/30/13 16:52		1
Chloroethane	ND		1.00		ug/L		09/30/13 16:52		1
Chloroform	ND		1.00		ug/L		09/30/13 16:52		1
Chloromethane	ND		1.00		ug/L		09/30/13 16:52		1
cis-1,2-Dichloroethene	ND		1.00		ug/L		09/30/13 16:52		1
cis-1,3-Dichloropropene	ND		1.00		ug/L		09/30/13 16:52		1
Dibromomethane	ND		1.00		ug/L		09/30/13 16:52		1
Dichlorodifluoromethane	ND		1.00		ug/L		09/30/13 16:52		1
Ethylbenzene	ND		1.00		ug/L		09/30/13 16:52		1
Hexachlorobutadiene	ND		2.00		ug/L		09/30/13 16:52		1
Isopropylbenzene	ND		1.00		ug/L		09/30/13 16:52		1
Methyl tert-butyl ether	ND		1.00		ug/L		09/30/13 16:52		1
Methylene Chloride	ND		5.00		ug/L		09/30/13 16:52		1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-1

Lab Sample ID: 490-35853-1

Matrix: Water

Date Collected: 09/17/13 14:25
 Date Received: 09/20/13 15:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			09/30/13 16:52	1
n-Butylbenzene	ND		1.00		ug/L			09/30/13 16:52	1
N-Propylbenzene	ND		1.00		ug/L			09/30/13 16:52	1
p-Isopropyltoluene	ND		1.00		ug/L			09/30/13 16:52	1
sec-Butylbenzene	ND		1.00		ug/L			09/30/13 16:52	1
Styrene	ND		1.00		ug/L			09/30/13 16:52	1
tert-Butylbenzene	ND		1.00		ug/L			09/30/13 16:52	1
Tetrachloroethene	ND		1.00		ug/L			09/30/13 16:52	1
Toluene	ND		1.00		ug/L			09/30/13 16:52	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 16:52	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 16:52	1
Trichloroethene	ND		1.00		ug/L			09/30/13 16:52	1
Trichlorofluoromethane	ND		1.00		ug/L			09/30/13 16:52	1
Vinyl chloride	ND		1.00		ug/L			09/30/13 16:52	1
Xylenes, Total	ND		2.00		ug/L			09/30/13 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130					09/30/13 16:52	1
4-Bromofluorobenzene (Surr)	109		70 - 130					09/30/13 16:52	1
Dibromofluoromethane (Surr)	86		70 - 130					09/30/13 16:52	1
Toluene-d8 (Surr)	97		70 - 130					09/30/13 16:52	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-2

Date Collected: 09/17/13 15:25

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			09/30/13 17:20	1
1,1,1-Trichloroethane	ND		1.00		ug/L			09/30/13 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/30/13 17:20	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/30/13 17:20	1
1,1-Dichloroethane	ND		1.00		ug/L			09/30/13 17:20	1
1,1-Dichloroethene	ND		1.00		ug/L			09/30/13 17:20	1
1,1-Dichloropropene	ND		1.00		ug/L			09/30/13 17:20	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/30/13 17:20	1
1,2,3-Trichloropropane	ND		1.00		ug/L			09/30/13 17:20	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/30/13 17:20	1
1,2,4-Trimethylbenzene	8.58		1.00		ug/L			09/30/13 17:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/30/13 17:20	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/30/13 17:20	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/30/13 17:20	1
1,2-Dichloroethane	ND		1.00		ug/L			09/30/13 17:20	1
1,2-Dichloropropane	ND		1.00		ug/L			09/30/13 17:20	1
1,3,5-Trimethylbenzene	1.24		1.00		ug/L			09/30/13 17:20	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/30/13 17:20	1
1,3-Dichloropropane	ND		1.00		ug/L			09/30/13 17:20	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/30/13 17:20	1
2,2-Dichloropropane	ND		1.00		ug/L			09/30/13 17:20	1
2-Butanone (MEK)	ND		50.0		ug/L			09/30/13 17:20	1
2-Chlorotoluene	ND		1.00		ug/L			09/30/13 17:20	1
2-Hexanone	ND		5.00		ug/L			09/30/13 17:20	1
4-Chlorotoluene	ND		1.00		ug/L			09/30/13 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			09/30/13 17:20	1
Acetone	ND		5.00		ug/L			09/30/13 17:20	1
Benzene	15.6		1.00		ug/L			09/30/13 17:20	1
Bromobenzene	ND		1.00		ug/L			09/30/13 17:20	1
Bromochloromethane	ND		1.00		ug/L			09/30/13 17:20	1
Bromodichloromethane	ND		1.00		ug/L			09/30/13 17:20	1
Bromoform	ND		1.00		ug/L			09/30/13 17:20	1
Bromomethane	ND		1.00		ug/L			09/30/13 17:20	1
Carbon disulfide	ND		1.00		ug/L			09/30/13 17:20	1
Carbon tetrachloride	ND		1.00		ug/L			09/30/13 17:20	1
Chlorobenzene	ND		1.00		ug/L			09/30/13 17:20	1
Chlorodibromomethane	ND		1.00		ug/L			09/30/13 17:20	1
Chloroethane	ND		1.00		ug/L			09/30/13 17:20	1
Chloroform	ND		1.00		ug/L			09/30/13 17:20	1
Chloromethane	ND		1.00		ug/L			09/30/13 17:20	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 17:20	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 17:20	1
Dibromomethane	ND		1.00		ug/L			09/30/13 17:20	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/30/13 17:20	1
Ethylbenzene	ND		1.00		ug/L			09/30/13 17:20	1
Hexachlorobutadiene	ND		2.00		ug/L			09/30/13 17:20	1
Isopropylbenzene	4.56		1.00		ug/L			09/30/13 17:20	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/30/13 17:20	1
Methylene Chloride	ND		5.00		ug/L			09/30/13 17:20	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-2

Lab Sample ID: 490-35853-2

Date Collected: 09/17/13 15:25

Matrix: Water

Date Received: 09/20/13 15:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			09/30/13 17:20	1
n-Butylbenzene	ND		1.00		ug/L			09/30/13 17:20	1
N-Propylbenzene	3.16		1.00		ug/L			09/30/13 17:20	1
p-Isopropyltoluene	ND		1.00		ug/L			09/30/13 17:20	1
sec-Butylbenzene	ND		1.00		ug/L			09/30/13 17:20	1
Styrene	ND		1.00		ug/L			09/30/13 17:20	1
tert-Butylbenzene	ND		1.00		ug/L			09/30/13 17:20	1
Tetrachloroethene	ND		1.00		ug/L			09/30/13 17:20	1
Toluene	ND		1.00		ug/L			09/30/13 17:20	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 17:20	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 17:20	1
Trichloroethene	ND		1.00		ug/L			09/30/13 17:20	1
Trichlorofluoromethane	ND		1.00		ug/L			09/30/13 17:20	1
Vinyl chloride	ND		1.00		ug/L			09/30/13 17:20	1
Xylenes, Total	5.20		2.00		ug/L			09/30/13 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130					09/30/13 17:20	1
4-Bromofluorobenzene (Surr)	110		70 - 130					09/30/13 17:20	1
Dibromofluoromethane (Surr)	90		70 - 130					09/30/13 17:20	1
Toluene-d8 (Surr)	95		70 - 130					09/30/13 17:20	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-3

Date Collected: 09/18/13 11:10

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5000		ug/L			09/30/13 22:03	5000
1,1,1-Trichloroethane	ND		5000		ug/L			09/30/13 22:03	5000
1,1,2,2-Tetrachloroethane	ND		5000		ug/L			09/30/13 22:03	5000
1,1,2-Trichloroethane	ND		5000		ug/L			09/30/13 22:03	5000
1,1-Dichloroethane	ND		5000		ug/L			09/30/13 22:03	5000
1,1-Dichloroethene	ND		5000		ug/L			09/30/13 22:03	5000
1,1-Dichloropropene	ND		5000		ug/L			09/30/13 22:03	5000
1,2,3-Trichlorobenzene	ND		5000		ug/L			09/30/13 22:03	5000
1,2,3-Trichloropropane	ND		5000		ug/L			09/30/13 22:03	5000
1,2,4-Trichlorobenzene	ND		5000		ug/L			09/30/13 22:03	5000
1,2,4-Trimethylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
1,2-Dibromo-3-Chloropropane	ND		50000		ug/L			09/30/13 22:03	5000
1,2-Dibromoethane (EDB)	ND		5000		ug/L			09/30/13 22:03	5000
1,2-Dichlorobenzene	ND		5000		ug/L			09/30/13 22:03	5000
1,2-Dichloroethane	ND		5000		ug/L			09/30/13 22:03	5000
1,2-Dichloropropane	ND		5000		ug/L			09/30/13 22:03	5000
1,3,5-Trimethylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
1,3-Dichlorobenzene	ND		5000		ug/L			09/30/13 22:03	5000
1,3-Dichloropropane	ND		5000		ug/L			09/30/13 22:03	5000
1,4-Dichlorobenzene	ND		5000		ug/L			09/30/13 22:03	5000
2,2-Dichloropropane	ND		5000		ug/L			09/30/13 22:03	5000
2-Butanone (MEK)	ND		250000		ug/L			09/30/13 22:03	5000
2-Chlorotoluene	ND		5000		ug/L			09/30/13 22:03	5000
2-Hexanone	ND		25000		ug/L			09/30/13 22:03	5000
4-Chlorotoluene	ND		5000		ug/L			09/30/13 22:03	5000
4-Methyl-2-pentanone (MIBK)	ND		25000		ug/L			09/30/13 22:03	5000
Acetone	649000			25000	ug/L			09/30/13 22:03	5000
Benzene	ND		5000		ug/L			09/30/13 22:03	5000
Bromobenzene	ND		5000		ug/L			09/30/13 22:03	5000
Bromochloromethane	ND		5000		ug/L			09/30/13 22:03	5000
Bromodichloromethane	ND		5000		ug/L			09/30/13 22:03	5000
Bromoform	ND		5000		ug/L			09/30/13 22:03	5000
Bromomethane	ND		5000		ug/L			09/30/13 22:03	5000
Carbon disulfide	ND		5000		ug/L			09/30/13 22:03	5000
Carbon tetrachloride	ND		5000		ug/L			09/30/13 22:03	5000
Chlorobenzene	ND		5000		ug/L			09/30/13 22:03	5000
Chlorodibromomethane	ND		5000		ug/L			09/30/13 22:03	5000
Chloroethane	ND		5000		ug/L			09/30/13 22:03	5000
Chloroform	ND		5000		ug/L			09/30/13 22:03	5000
Chloromethane	ND		5000		ug/L			09/30/13 22:03	5000
cis-1,2-Dichloroethene	ND		5000		ug/L			09/30/13 22:03	5000
cis-1,3-Dichloropropene	ND		5000		ug/L			09/30/13 22:03	5000
Dibromomethane	ND		5000		ug/L			09/30/13 22:03	5000
Dichlorodifluoromethane	ND		5000		ug/L			09/30/13 22:03	5000
Ethylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
Hexachlorobutadiene	ND		10000		ug/L			09/30/13 22:03	5000
Isopropylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
Methyl tert-butyl ether	ND		5000		ug/L			09/30/13 22:03	5000
Methylene Chloride	ND		25000		ug/L			09/30/13 22:03	5000

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-3

Lab Sample ID: 490-35853-3

Date Collected: 09/18/13 11:10

Matrix: Water

Date Received: 09/20/13 15:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25000		ug/L			09/30/13 22:03	5000
n-Butylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
N-Propylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
p-Isopropyltoluene	ND		5000		ug/L			09/30/13 22:03	5000
sec-Butylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
Styrene	ND		5000		ug/L			09/30/13 22:03	5000
tert-Butylbenzene	ND		5000		ug/L			09/30/13 22:03	5000
Tetrachloroethene	ND		5000		ug/L			09/30/13 22:03	5000
Toluene	484000		5000		ug/L			09/30/13 22:03	5000
trans-1,2-Dichloroethene	ND		5000		ug/L			09/30/13 22:03	5000
trans-1,3-Dichloropropene	ND		5000		ug/L			09/30/13 22:03	5000
Trichloroethene	ND		5000		ug/L			09/30/13 22:03	5000
Trichlorofluoromethane	ND		5000		ug/L			09/30/13 22:03	5000
Vinyl chloride	ND		5000		ug/L			09/30/13 22:03	5000
Xylenes, Total	ND		10000		ug/L			09/30/13 22:03	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130					09/30/13 22:03	5000
4-Bromofluorobenzene (Surr)	109		70 - 130					09/30/13 22:03	5000
Dibromofluoromethane (Surr)	59	X	70 - 130					09/30/13 22:03	5000
Toluene-d8 (Surr)	95		70 - 130					09/30/13 22:03	5000

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-4

Date Collected: 09/18/13 10:30

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 18:15		1
1,1,1-Trichloroethane	ND		1.00		ug/L		09/30/13 18:15		1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 18:15		1
1,1,2-Trichloroethane	ND		1.00		ug/L		09/30/13 18:15		1
1,1-Dichloroethane	ND		1.00		ug/L		09/30/13 18:15		1
1,1-Dichloroethene	ND		1.00		ug/L		09/30/13 18:15		1
1,1-Dichloropropene	ND		1.00		ug/L		09/30/13 18:15		1
1,2,3-Trichlorobenzene	ND		1.00		ug/L		09/30/13 18:15		1
1,2,3-Trichloropropane	ND		1.00		ug/L		09/30/13 18:15		1
1,2,4-Trichlorobenzene	ND		1.00		ug/L		09/30/13 18:15		1
1,2,4-Trimethylbenzene	ND		1.00		ug/L		09/30/13 18:15		1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L		09/30/13 18:15		1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		09/30/13 18:15		1
1,2-Dichlorobenzene	ND		1.00		ug/L		09/30/13 18:15		1
1,2-Dichloroethane	ND		1.00		ug/L		09/30/13 18:15		1
1,2-Dichloropropene	ND		1.00		ug/L		09/30/13 18:15		1
1,3,5-Trimethylbenzene	ND		1.00		ug/L		09/30/13 18:15		1
1,3-Dichlorobenzene	ND		1.00		ug/L		09/30/13 18:15		1
1,3-Dichloropropane	ND		1.00		ug/L		09/30/13 18:15		1
1,4-Dichlorobenzene	ND		1.00		ug/L		09/30/13 18:15		1
2,2-Dichloropropane	ND		1.00		ug/L		09/30/13 18:15		1
2-Butanone (MEK)	ND		50.0		ug/L		09/30/13 18:15		1
2-Chlorotoluene	ND		1.00		ug/L		09/30/13 18:15		1
2-Hexanone	ND		5.00		ug/L		09/30/13 18:15		1
4-Chlorotoluene	ND		1.00		ug/L		09/30/13 18:15		1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L		09/30/13 18:15		1
Acetone	ND		5.00		ug/L		09/30/13 18:15		1
Benzene	ND		1.00		ug/L		09/30/13 18:15		1
Bromobenzene	ND		1.00		ug/L		09/30/13 18:15		1
Bromochloromethane	ND		1.00		ug/L		09/30/13 18:15		1
Bromodichloromethane	ND		1.00		ug/L		09/30/13 18:15		1
Bromoform	ND		1.00		ug/L		09/30/13 18:15		1
Bromomethane	ND		1.00		ug/L		09/30/13 18:15		1
Carbon disulfide	ND		1.00		ug/L		09/30/13 18:15		1
Carbon tetrachloride	ND		1.00		ug/L		09/30/13 18:15		1
Chlorobenzene	ND		1.00		ug/L		09/30/13 18:15		1
Chlorodibromomethane	ND		1.00		ug/L		09/30/13 18:15		1
Chloroethane	ND		1.00		ug/L		09/30/13 18:15		1
Chloroform	ND		1.00		ug/L		09/30/13 18:15		1
Chloromethane	ND		1.00		ug/L		09/30/13 18:15		1
cis-1,2-Dichloroethene	ND		1.00		ug/L		09/30/13 18:15		1
cis-1,3-Dichloropropene	ND		1.00		ug/L		09/30/13 18:15		1
Dibromomethane	ND		1.00		ug/L		09/30/13 18:15		1
Dichlorodifluoromethane	ND		1.00		ug/L		09/30/13 18:15		1
Ethylbenzene	ND		1.00		ug/L		09/30/13 18:15		1
Hexachlorobutadiene	ND		2.00		ug/L		09/30/13 18:15		1
Isopropylbenzene	ND		1.00		ug/L		09/30/13 18:15		1
Methyl tert-butyl ether	ND		1.00		ug/L		09/30/13 18:15		1
Methylene Chloride	ND		5.00		ug/L		09/30/13 18:15		1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-4

Lab Sample ID: 490-35853-4

Date Collected: 09/18/13 10:30
 Date Received: 09/20/13 15:50

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			09/30/13 18:15	1
n-Butylbenzene	ND		1.00		ug/L			09/30/13 18:15	1
N-Propylbenzene	ND		1.00		ug/L			09/30/13 18:15	1
p-Isopropyltoluene	ND		1.00		ug/L			09/30/13 18:15	1
sec-Butylbenzene	ND		1.00		ug/L			09/30/13 18:15	1
Styrene	ND		1.00		ug/L			09/30/13 18:15	1
tert-Butylbenzene	ND		1.00		ug/L			09/30/13 18:15	1
Tetrachloroethene	ND		1.00		ug/L			09/30/13 18:15	1
Toluene	ND		1.00		ug/L			09/30/13 18:15	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 18:15	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 18:15	1
Trichloroethene	ND		1.00		ug/L			09/30/13 18:15	1
Trichlorofluoromethane	ND		1.00		ug/L			09/30/13 18:15	1
Vinyl chloride	ND		1.00		ug/L			09/30/13 18:15	1
Xylenes, Total	ND		2.00		ug/L			09/30/13 18:15	1
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Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130					09/30/13 18:15	1
4-Bromofluorobenzene (Surr)	109		70 - 130					09/30/13 18:15	1
Dibromofluoromethane (Surr)	90		70 - 130					09/30/13 18:15	1
Toluene-d8 (Surr)	96		70 - 130					09/30/13 18:15	1

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TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-5

Date Collected: 09/18/13 08:30

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 17:47		1
1,1,1-Trichloroethane	ND		1.00		ug/L		09/30/13 17:47		1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 17:47		1
1,1,2-Trichloroethane	ND		1.00		ug/L		09/30/13 17:47		1
1,1-Dichloroethane	ND		1.00		ug/L		09/30/13 17:47		1
1,1-Dichloroethene	ND		1.00		ug/L		09/30/13 17:47		1
1,1-Dichloropropene	ND		1.00		ug/L		09/30/13 17:47		1
1,2,3-Trichlorobenzene	ND		1.00		ug/L		09/30/13 17:47		1
1,2,3-Trichloropropane	ND		1.00		ug/L		09/30/13 17:47		1
1,2,4-Trichlorobenzene	ND		1.00		ug/L		09/30/13 17:47		1
1,2,4-Trimethylbenzene	ND		1.00		ug/L		09/30/13 17:47		1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L		09/30/13 17:47		1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		09/30/13 17:47		1
1,2-Dichlorobenzene	ND		1.00		ug/L		09/30/13 17:47		1
1,2-Dichloroethane	ND		1.00		ug/L		09/30/13 17:47		1
1,2-Dichloropropane	ND		1.00		ug/L		09/30/13 17:47		1
1,3,5-Trimethylbenzene	ND		1.00		ug/L		09/30/13 17:47		1
1,3-Dichlorobenzene	ND		1.00		ug/L		09/30/13 17:47		1
1,3-Dichloropropane	ND		1.00		ug/L		09/30/13 17:47		1
1,4-Dichlorobenzene	ND		1.00		ug/L		09/30/13 17:47		1
2,2-Dichloropropane	ND		1.00		ug/L		09/30/13 17:47		1
2-Butanone (MEK)	ND		50.0		ug/L		09/30/13 17:47		1
2-Chlorotoluene	ND		1.00		ug/L		09/30/13 17:47		1
2-Hexanone	ND		5.00		ug/L		09/30/13 17:47		1
4-Chlorotoluene	ND		1.00		ug/L		09/30/13 17:47		1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L		09/30/13 17:47		1
Acetone	ND		5.00		ug/L		09/30/13 17:47		1
Benzene	ND		1.00		ug/L		09/30/13 17:47		1
Bromobenzene	ND		1.00		ug/L		09/30/13 17:47		1
Bromochloromethane	ND		1.00		ug/L		09/30/13 17:47		1
Bromodichloromethane	ND		1.00		ug/L		09/30/13 17:47		1
Bromoform	ND		1.00		ug/L		09/30/13 17:47		1
Bromomethane	ND		1.00		ug/L		09/30/13 17:47		1
Carbon disulfide	ND		1.00		ug/L		09/30/13 17:47		1
Carbon tetrachloride	ND		1.00		ug/L		09/30/13 17:47		1
Chlorobenzene	ND		1.00		ug/L		09/30/13 17:47		1
Chlorodibromomethane	ND		1.00		ug/L		09/30/13 17:47		1
Chloroethane	ND		1.00		ug/L		09/30/13 17:47		1
Chloroform	ND		1.00		ug/L		09/30/13 17:47		1
Chloromethane	ND		1.00		ug/L		09/30/13 17:47		1
cis-1,2-Dichloroethene	ND		1.00		ug/L		09/30/13 17:47		1
cis-1,3-Dichloropropene	ND		1.00		ug/L		09/30/13 17:47		1
Dibromomethane	ND		1.00		ug/L		09/30/13 17:47		1
Dichlorodifluoromethane	ND		1.00		ug/L		09/30/13 17:47		1
Ethylbenzene	ND		1.00		ug/L		09/30/13 17:47		1
Hexachlorobutadiene	ND		2.00		ug/L		09/30/13 17:47		1
Isopropylbenzene	ND		1.00		ug/L		09/30/13 17:47		1
Methyl tert-butyl ether	ND		1.00		ug/L		09/30/13 17:47		1
Methylene Chloride	ND		5.00		ug/L		09/30/13 17:47		1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-5

Lab Sample ID: 490-35853-5

Date Collected: 09/18/13 08:30

Matrix: Water

Date Received: 09/20/13 15:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			09/30/13 17:47	1
n-Butylbenzene	ND		1.00		ug/L			09/30/13 17:47	1
N-Propylbenzene	ND		1.00		ug/L			09/30/13 17:47	1
p-Isopropyltoluene	ND		1.00		ug/L			09/30/13 17:47	1
sec-Butylbenzene	ND		1.00		ug/L			09/30/13 17:47	1
Styrene	ND		1.00		ug/L			09/30/13 17:47	1
tert-Butylbenzene	ND		1.00		ug/L			09/30/13 17:47	1
Tetrachloroethene	ND		1.00		ug/L			09/30/13 17:47	1
Toluene	ND		1.00		ug/L			09/30/13 17:47	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 17:47	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 17:47	1
Trichloroethene	ND		1.00		ug/L			09/30/13 17:47	1
Trichlorofluoromethane	ND		1.00		ug/L			09/30/13 17:47	1
Vinyl chloride	ND		1.00		ug/L			09/30/13 17:47	1
Xylenes, Total	ND		2.00		ug/L			09/30/13 17:47	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130					09/30/13 17:47	1
4-Bromofluorobenzene (Surr)	108		70 - 130					09/30/13 17:47	1
Dibromofluoromethane (Surr)	90		70 - 130					09/30/13 17:47	1
Toluene-d8 (Surr)	95		70 - 130					09/30/13 17:47	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: AR-1

Date Collected: 09/18/13 10:05

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.00		ug/L			09/30/13 20:13	5
1,1,1-Trichloroethane	ND		5.00		ug/L			09/30/13 20:13	5
1,1,2,2-Tetrachloroethane	ND		5.00		ug/L			09/30/13 20:13	5
1,1,2-Trichloroethane	ND		5.00		ug/L			09/30/13 20:13	5
1,1-Dichloroethane	ND		5.00		ug/L			09/30/13 20:13	5
1,1-Dichloroethene	ND		5.00		ug/L			09/30/13 20:13	5
1,1-Dichloropropene	ND		5.00		ug/L			09/30/13 20:13	5
1,2,3-Trichlorobenzene	ND		5.00		ug/L			09/30/13 20:13	5
1,2,3-Trichloropropane	ND		5.00		ug/L			09/30/13 20:13	5
1,2,4-Trichlorobenzene	ND		5.00		ug/L			09/30/13 20:13	5
1,2,4-Trimethylbenzene	ND		5.00		ug/L			09/30/13 20:13	5
1,2-Dibromo-3-Chloropropane	ND		50.0		ug/L			09/30/13 20:13	5
1,2-Dibromoethane (EDB)	ND		5.00		ug/L			09/30/13 20:13	5
1,2-Dichlorobenzene	ND		5.00		ug/L			09/30/13 20:13	5
1,2-Dichloroethane	ND		5.00		ug/L			09/30/13 20:13	5
1,2-Dichloropropane	ND		5.00		ug/L			09/30/13 20:13	5
1,3,5-Trimethylbenzene	ND		5.00		ug/L			09/30/13 20:13	5
1,3-Dichlorobenzene	ND		5.00		ug/L			09/30/13 20:13	5
1,3-Dichloropropane	ND		5.00		ug/L			09/30/13 20:13	5
1,4-Dichlorobenzene	ND		5.00		ug/L			09/30/13 20:13	5
2,2-Dichloropropane	ND		5.00		ug/L			09/30/13 20:13	5
2-Butanone (MEK)	ND		250		ug/L			09/30/13 20:13	5
2-Chlorotoluene	ND		5.00		ug/L			09/30/13 20:13	5
2-Hexanone	ND		25.0		ug/L			09/30/13 20:13	5
4-Chlorotoluene	ND		5.00		ug/L			09/30/13 20:13	5
4-Methyl-2-pentanone (MIBK)	ND		25.0		ug/L			09/30/13 20:13	5
Acetone	ND		25.0		ug/L			09/30/13 20:13	5
Benzene	ND		5.00		ug/L			09/30/13 20:13	5
Bromobenzene	ND		5.00		ug/L			09/30/13 20:13	5
Bromochloromethane	ND		5.00		ug/L			09/30/13 20:13	5
Bromodichloromethane	ND		5.00		ug/L			09/30/13 20:13	5
Bromoform	ND		5.00		ug/L			09/30/13 20:13	5
Bromomethane	ND		5.00		ug/L			09/30/13 20:13	5
Carbon disulfide	ND		5.00		ug/L			09/30/13 20:13	5
Carbon tetrachloride	ND		5.00		ug/L			09/30/13 20:13	5
Chlorobenzene	ND		5.00		ug/L			09/30/13 20:13	5
Chlorodibromomethane	ND		5.00		ug/L			09/30/13 20:13	5
Chloroethane	ND		5.00		ug/L			09/30/13 20:13	5
Chloroform	ND		5.00		ug/L			09/30/13 20:13	5
Chloromethane	ND		5.00		ug/L			09/30/13 20:13	5
cis-1,2-Dichloroethene	ND		5.00		ug/L			09/30/13 20:13	5
cis-1,3-Dichloropropene	ND		5.00		ug/L			09/30/13 20:13	5
Dibromomethane	ND		5.00		ug/L			09/30/13 20:13	5
Dichlorodifluoromethane	ND		5.00		ug/L			09/30/13 20:13	5
Ethylbenzene	12.1		5.00		ug/L			09/30/13 20:13	5
Hexachlorobutadiene	ND		10.0		ug/L			09/30/13 20:13	5
Isopropylbenzene	6.03		5.00		ug/L			09/30/13 20:13	5
Methyl tert-butyl ether	ND		5.00		ug/L			09/30/13 20:13	5
Methylene Chloride	ND		25.0		ug/L			09/30/13 20:13	5

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: AR-1

Lab Sample ID: 490-35853-6

Date Collected: 09/18/13 10:05

Matrix: Water

Date Received: 09/20/13 15:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25.0		ug/L		09/30/13 20:13		5
n-Butylbenzene	ND		5.00		ug/L		09/30/13 20:13		5
N-Propylbenzene	ND		5.00		ug/L		09/30/13 20:13		5
p-Isopropyltoluene	ND		5.00		ug/L		09/30/13 20:13		5
sec-Butylbenzene	ND		5.00		ug/L		09/30/13 20:13		5
Styrene	ND		5.00		ug/L		09/30/13 20:13		5
tert-Butylbenzene	ND		5.00		ug/L		09/30/13 20:13		5
Tetrachloroethene	ND		5.00		ug/L		09/30/13 20:13		5
Toluene	434		5.00		ug/L		09/30/13 20:13		5
trans-1,2-Dichloroethene	ND		5.00		ug/L		09/30/13 20:13		5
trans-1,3-Dichloropropene	ND		5.00		ug/L		09/30/13 20:13		5
Trichloroethene	ND		5.00		ug/L		09/30/13 20:13		5
Trichlorofluoromethane	ND		5.00		ug/L		09/30/13 20:13		5
Vinyl chloride	ND		5.00		ug/L		09/30/13 20:13		5
Xylenes, Total	1250		10.0		ug/L		09/30/13 20:13		5
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130				09/30/13 20:13		5
4-Bromofluorobenzene (Surr)	109		70 - 130				09/30/13 20:13		5
Dibromofluoromethane (Surr)	87		70 - 130				09/30/13 20:13		5
Toluene-d8 (Surr)	95		70 - 130				09/30/13 20:13		5

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: RW-1

Date Collected: 09/18/13 09:20
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50.0		ug/L			09/30/13 20:41	50
1,1,1-Trichloroethane	ND		50.0		ug/L			09/30/13 20:41	50
1,1,2,2-Tetrachloroethane	ND		50.0		ug/L			09/30/13 20:41	50
1,1,2-Trichloroethane	ND		50.0		ug/L			09/30/13 20:41	50
1,1-Dichloroethane	ND		50.0		ug/L			09/30/13 20:41	50
1,1-Dichloroethene	ND		50.0		ug/L			09/30/13 20:41	50
1,1-Dichloropropene	ND		50.0		ug/L			09/30/13 20:41	50
1,2,3-Trichlorobenzene	ND		50.0		ug/L			09/30/13 20:41	50
1,2,3-Trichloropropane	ND		50.0		ug/L			09/30/13 20:41	50
1,2,4-Trichlorobenzene	ND		50.0		ug/L			09/30/13 20:41	50
1,2,4-Trimethylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			09/30/13 20:41	50
1,2-Dibromoethane (EDB)	ND		50.0		ug/L			09/30/13 20:41	50
1,2-Dichlorobenzene	ND		50.0		ug/L			09/30/13 20:41	50
1,2-Dichloroethane	ND		50.0		ug/L			09/30/13 20:41	50
1,2-Dichloropropane	ND		50.0		ug/L			09/30/13 20:41	50
1,3,5-Trimethylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
1,3-Dichlorobenzene	ND		50.0		ug/L			09/30/13 20:41	50
1,3-Dichloropropane	ND		50.0		ug/L			09/30/13 20:41	50
1,4-Dichlorobenzene	ND		50.0		ug/L			09/30/13 20:41	50
2,2-Dichloropropane	ND		50.0		ug/L			09/30/13 20:41	50
2-Butanone (MEK)	ND		2500		ug/L			09/30/13 20:41	50
2-Chlorotoluene	ND		50.0		ug/L			09/30/13 20:41	50
2-Hexanone	ND		250		ug/L			09/30/13 20:41	50
4-Chlorotoluene	ND		50.0		ug/L			09/30/13 20:41	50
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			09/30/13 20:41	50
Acetone	ND		250		ug/L			09/30/13 20:41	50
Benzene	ND		50.0		ug/L			09/30/13 20:41	50
Bromobenzene	ND		50.0		ug/L			09/30/13 20:41	50
Bromochloromethane	ND		50.0		ug/L			09/30/13 20:41	50
Bromodichloromethane	ND		50.0		ug/L			09/30/13 20:41	50
Bromoform	ND		50.0		ug/L			09/30/13 20:41	50
Bromomethane	ND		50.0		ug/L			09/30/13 20:41	50
Carbon disulfide	ND		50.0		ug/L			09/30/13 20:41	50
Carbon tetrachloride	ND		50.0		ug/L			09/30/13 20:41	50
Chlorobenzene	ND		50.0		ug/L			09/30/13 20:41	50
Chlorodibromomethane	ND		50.0		ug/L			09/30/13 20:41	50
Chloroethane	ND		50.0		ug/L			09/30/13 20:41	50
Chloroform	ND		50.0		ug/L			09/30/13 20:41	50
Chloromethane	ND		50.0		ug/L			09/30/13 20:41	50
cis-1,2-Dichloroethene	ND		50.0		ug/L			09/30/13 20:41	50
cis-1,3-Dichloropropene	ND		50.0		ug/L			09/30/13 20:41	50
Dibromomethane	ND		50.0		ug/L			09/30/13 20:41	50
Dichlorodifluoromethane	ND		50.0		ug/L			09/30/13 20:41	50
Ethylbenzene	624		50.0		ug/L			09/30/13 20:41	50
Hexachlorobutadiene	ND		100		ug/L			09/30/13 20:41	50
Isopropylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
Methyl tert-butyl ether	ND		50.0		ug/L			09/30/13 20:41	50
Methylene Chloride	ND		250		ug/L			09/30/13 20:41	50

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: RW-1

Lab Sample ID: 490-35853-7

Date Collected: 09/18/13 09:20
 Date Received: 09/20/13 15:50

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		250		ug/L			09/30/13 20:41	50
n-Butylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
N-Propylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
p-Isopropyltoluene	ND		50.0		ug/L			09/30/13 20:41	50
sec-Butylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
Styrene	ND		50.0		ug/L			09/30/13 20:41	50
tert-Butylbenzene	ND		50.0		ug/L			09/30/13 20:41	50
Tetrachloroethene	ND		50.0		ug/L			09/30/13 20:41	50
Toluene	3500		50.0		ug/L			09/30/13 20:41	50
trans-1,2-Dichloroethene	ND		50.0		ug/L			09/30/13 20:41	50
trans-1,3-Dichloropropene	ND		50.0		ug/L			09/30/13 20:41	50
Trichloroethene	ND		50.0		ug/L			09/30/13 20:41	50
Trichlorofluoromethane	ND		50.0		ug/L			09/30/13 20:41	50
Vinyl chloride	ND		50.0		ug/L			09/30/13 20:41	50
Xylenes, Total	9500		100		ug/L			09/30/13 20:41	50
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130					09/30/13 20:41	50
4-Bromofluorobenzene (Surr)	108		70 - 130					09/30/13 20:41	50
Dibromofluoromethane (Surr)	88		70 - 130					09/30/13 20:41	50
Toluene-d8 (Surr)	94		70 - 130					09/30/13 20:41	50

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: FB

Date Collected: 09/18/13 16:00
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 15:57		1
1,1,1-Trichloroethane	ND		1.00		ug/L		09/30/13 15:57		1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 15:57		1
1,1,2-Trichloroethane	ND		1.00		ug/L		09/30/13 15:57		1
1,1-Dichloroethane	ND		1.00		ug/L		09/30/13 15:57		1
1,1-Dichloroethene	ND		1.00		ug/L		09/30/13 15:57		1
1,1-Dichloropropene	ND		1.00		ug/L		09/30/13 15:57		1
1,2,3-Trichlorobenzene	ND		1.00		ug/L		09/30/13 15:57		1
1,2,3-Trichloropropane	ND		1.00		ug/L		09/30/13 15:57		1
1,2,4-Trichlorobenzene	ND		1.00		ug/L		09/30/13 15:57		1
1,2,4-Trimethylbenzene	ND		1.00		ug/L		09/30/13 15:57		1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L		09/30/13 15:57		1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		09/30/13 15:57		1
1,2-Dichlorobenzene	ND		1.00		ug/L		09/30/13 15:57		1
1,2-Dichloroethane	ND		1.00		ug/L		09/30/13 15:57		1
1,2-Dichloropropane	ND		1.00		ug/L		09/30/13 15:57		1
1,3,5-Trimethylbenzene	ND		1.00		ug/L		09/30/13 15:57		1
1,3-Dichlorobenzene	ND		1.00		ug/L		09/30/13 15:57		1
1,3-Dichloropropane	ND		1.00		ug/L		09/30/13 15:57		1
1,4-Dichlorobenzene	ND		1.00		ug/L		09/30/13 15:57		1
2,2-Dichloropropane	ND		1.00		ug/L		09/30/13 15:57		1
2-Butanone (MEK)	ND		50.0		ug/L		09/30/13 15:57		1
2-Chlorotoluene	ND		1.00		ug/L		09/30/13 15:57		1
2-Hexanone	ND		5.00		ug/L		09/30/13 15:57		1
4-Chlorotoluene	ND		1.00		ug/L		09/30/13 15:57		1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L		09/30/13 15:57		1
Acetone	ND		5.00		ug/L		09/30/13 15:57		1
Benzene	ND		1.00		ug/L		09/30/13 15:57		1
Bromobenzene	ND		1.00		ug/L		09/30/13 15:57		1
Bromochloromethane	ND		1.00		ug/L		09/30/13 15:57		1
Bromodichloromethane	ND		1.00		ug/L		09/30/13 15:57		1
Bromoform	ND		1.00		ug/L		09/30/13 15:57		1
Bromomethane	ND		1.00		ug/L		09/30/13 15:57		1
Carbon disulfide	ND		1.00		ug/L		09/30/13 15:57		1
Carbon tetrachloride	ND		1.00		ug/L		09/30/13 15:57		1
Chlorobenzene	ND		1.00		ug/L		09/30/13 15:57		1
Chlorodibromomethane	ND		1.00		ug/L		09/30/13 15:57		1
Chloroethane	ND		1.00		ug/L		09/30/13 15:57		1
Chloroform	ND		1.00		ug/L		09/30/13 15:57		1
Chloromethane	ND		1.00		ug/L		09/30/13 15:57		1
cis-1,2-Dichloroethene	ND		1.00		ug/L		09/30/13 15:57		1
cis-1,3-Dichloropropene	ND		1.00		ug/L		09/30/13 15:57		1
Dibromomethane	ND		1.00		ug/L		09/30/13 15:57		1
Dichlorodifluoromethane	ND		1.00		ug/L		09/30/13 15:57		1
Ethylbenzene	ND		1.00		ug/L		09/30/13 15:57		1
Hexachlorobutadiene	ND		2.00		ug/L		09/30/13 15:57		1
Isopropylbenzene	ND		1.00		ug/L		09/30/13 15:57		1
Methyl tert-butyl ether	ND		1.00		ug/L		09/30/13 15:57		1
Methylene Chloride	ND		5.00		ug/L		09/30/13 15:57		1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: FB

Lab Sample ID: 490-35853-8

Date Collected: 09/18/13 16:00
 Date Received: 09/20/13 15:50

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			09/30/13 15:57	1
n-Butylbenzene	ND		1.00		ug/L			09/30/13 15:57	1
N-Propylbenzene	ND		1.00		ug/L			09/30/13 15:57	1
p-Isopropyltoluene	ND		1.00		ug/L			09/30/13 15:57	1
sec-Butylbenzene	ND		1.00		ug/L			09/30/13 15:57	1
Styrene	ND		1.00		ug/L			09/30/13 15:57	1
tert-Butylbenzene	ND		1.00		ug/L			09/30/13 15:57	1
Tetrachloroethene	ND		1.00		ug/L			09/30/13 15:57	1
Toluene	ND		1.00		ug/L			09/30/13 15:57	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 15:57	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 15:57	1
Trichloroethene	ND		1.00		ug/L			09/30/13 15:57	1
Trichlorofluoromethane	ND		1.00		ug/L			09/30/13 15:57	1
Vinyl chloride	ND		1.00		ug/L			09/30/13 15:57	1
Xylenes, Total	ND		2.00		ug/L			09/30/13 15:57	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130					09/30/13 15:57	1
4-Bromofluorobenzene (Surr)	109		70 - 130					09/30/13 15:57	1
Dibromofluoromethane (Surr)	90		70 - 130					09/30/13 15:57	1
Toluene-d8 (Surr)	96		70 - 130					09/30/13 15:57	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: Trip Blank

Date Collected: 09/18/13 00:01

Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 16:25		1
1,1,1-Trichloroethane	ND		1.00		ug/L		09/30/13 16:25		1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		09/30/13 16:25		1
1,1,2-Trichloroethane	ND		1.00		ug/L		09/30/13 16:25		1
1,1-Dichloroethane	ND		1.00		ug/L		09/30/13 16:25		1
1,1-Dichloroethene	ND		1.00		ug/L		09/30/13 16:25		1
1,1-Dichloropropene	ND		1.00		ug/L		09/30/13 16:25		1
1,2,3-Trichlorobenzene	ND		1.00		ug/L		09/30/13 16:25		1
1,2,3-Trichloropropane	ND		1.00		ug/L		09/30/13 16:25		1
1,2,4-Trichlorobenzene	ND		1.00		ug/L		09/30/13 16:25		1
1,2,4-Trimethylbenzene	ND		1.00		ug/L		09/30/13 16:25		1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L		09/30/13 16:25		1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		09/30/13 16:25		1
1,2-Dichlorobenzene	ND		1.00		ug/L		09/30/13 16:25		1
1,2-Dichloroethane	ND		1.00		ug/L		09/30/13 16:25		1
1,2-Dichloropropane	ND		1.00		ug/L		09/30/13 16:25		1
1,3,5-Trimethylbenzene	ND		1.00		ug/L		09/30/13 16:25		1
1,3-Dichlorobenzene	ND		1.00		ug/L		09/30/13 16:25		1
1,3-Dichloropropane	ND		1.00		ug/L		09/30/13 16:25		1
1,4-Dichlorobenzene	ND		1.00		ug/L		09/30/13 16:25		1
2,2-Dichloropropane	ND		1.00		ug/L		09/30/13 16:25		1
2-Butanone (MEK)	ND		50.0		ug/L		09/30/13 16:25		1
2-Chlorotoluene	ND		1.00		ug/L		09/30/13 16:25		1
2-Hexanone	ND		5.00		ug/L		09/30/13 16:25		1
4-Chlorotoluene	ND		1.00		ug/L		09/30/13 16:25		1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L		09/30/13 16:25		1
Acetone	ND		5.00		ug/L		09/30/13 16:25		1
Benzene	ND		1.00		ug/L		09/30/13 16:25		1
Bromobenzene	ND		1.00		ug/L		09/30/13 16:25		1
Bromochloromethane	ND		1.00		ug/L		09/30/13 16:25		1
Bromodichloromethane	ND		1.00		ug/L		09/30/13 16:25		1
Bromoform	ND		1.00		ug/L		09/30/13 16:25		1
Bromomethane	ND		1.00		ug/L		09/30/13 16:25		1
Carbon disulfide	ND		1.00		ug/L		09/30/13 16:25		1
Carbon tetrachloride	ND		1.00		ug/L		09/30/13 16:25		1
Chlorobenzene	ND		1.00		ug/L		09/30/13 16:25		1
Chlorodibromomethane	ND		1.00		ug/L		09/30/13 16:25		1
Chloroethane	ND		1.00		ug/L		09/30/13 16:25		1
Chloroform	ND		1.00		ug/L		09/30/13 16:25		1
Chloromethane	ND		1.00		ug/L		09/30/13 16:25		1
cis-1,2-Dichloroethene	ND		1.00		ug/L		09/30/13 16:25		1
cis-1,3-Dichloropropene	ND		1.00		ug/L		09/30/13 16:25		1
Dibromomethane	ND		1.00		ug/L		09/30/13 16:25		1
Dichlorodifluoromethane	ND		1.00		ug/L		09/30/13 16:25		1
Ethylbenzene	ND		1.00		ug/L		09/30/13 16:25		1
Hexachlorobutadiene	ND		2.00		ug/L		09/30/13 16:25		1
Isopropylbenzene	ND		1.00		ug/L		09/30/13 16:25		1
Methyl tert-butyl ether	ND		1.00		ug/L		09/30/13 16:25		1
Methylene Chloride	ND		5.00		ug/L		09/30/13 16:25		1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: Trip Blank
Date Collected: 09/18/13 00:01
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			09/30/13 16:25	1
n-Butylbenzene	ND		1.00		ug/L			09/30/13 16:25	1
N-Propylbenzene	ND		1.00		ug/L			09/30/13 16:25	1
p-Isopropyltoluene	ND		1.00		ug/L			09/30/13 16:25	1
sec-Butylbenzene	ND		1.00		ug/L			09/30/13 16:25	1
Styrene	ND		1.00		ug/L			09/30/13 16:25	1
tert-Butylbenzene	ND		1.00		ug/L			09/30/13 16:25	1
Tetrachloroethene	ND		1.00		ug/L			09/30/13 16:25	1
Toluene	ND		1.00		ug/L			09/30/13 16:25	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 16:25	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 16:25	1
Trichloroethene	ND		1.00		ug/L			09/30/13 16:25	1
Trichlorofluoromethane	ND		1.00		ug/L			09/30/13 16:25	1
Vinyl chloride	ND		1.00		ug/L			09/30/13 16:25	1
Xylenes, Total	ND		2.00		ug/L			09/30/13 16:25	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130					09/30/13 16:25	1
4-Bromofluorobenzene (Surr)	110		70 - 130					09/30/13 16:25	1
Dibromofluoromethane (Surr)	88		70 - 130					09/30/13 16:25	1
Toluene-d8 (Surr)	95		70 - 130					09/30/13 16:25	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-110755/7

Matrix: Water

Analysis Batch: 110755

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			09/30/13 13:30	1
1,1,1-Trichloroethane	ND		1.00		ug/L			09/30/13 13:30	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/30/13 13:30	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/30/13 13:30	1
1,1-Dichloroethane	ND		1.00		ug/L			09/30/13 13:30	1
1,1-Dichloroethene	ND		1.00		ug/L			09/30/13 13:30	1
1,1-Dichloropropene	ND		1.00		ug/L			09/30/13 13:30	1
1,2,3-Trichlorobenzene	1.260		1.00		ug/L			09/30/13 13:30	1
1,2,3-Trichloropropane	ND		1.00		ug/L			09/30/13 13:30	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/30/13 13:30	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			09/30/13 13:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/30/13 13:30	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/30/13 13:30	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/30/13 13:30	1
1,2-Dichloroethane	ND		1.00		ug/L			09/30/13 13:30	1
1,2-Dichloropropane	ND		1.00		ug/L			09/30/13 13:30	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			09/30/13 13:30	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/30/13 13:30	1
1,3-Dichloropropane	ND		1.00		ug/L			09/30/13 13:30	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/30/13 13:30	1
2,2-Dichloropropane	ND		1.00		ug/L			09/30/13 13:30	1
2-Butanone (MEK)	ND		50.0		ug/L			09/30/13 13:30	1
2-Chlorotoluene	ND		1.00		ug/L			09/30/13 13:30	1
2-Hexanone	ND		5.00		ug/L			09/30/13 13:30	1
4-Chlorotoluene	ND		1.00		ug/L			09/30/13 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			09/30/13 13:30	1
Acetone	ND		5.00		ug/L			09/30/13 13:30	1
Benzene	ND		1.00		ug/L			09/30/13 13:30	1
Bromobenzene	ND		1.00		ug/L			09/30/13 13:30	1
Bromochloromethane	ND		1.00		ug/L			09/30/13 13:30	1
Bromodichloromethane	ND		1.00		ug/L			09/30/13 13:30	1
Bromoform	ND		1.00		ug/L			09/30/13 13:30	1
Bromomethane	ND		1.00		ug/L			09/30/13 13:30	1
Carbon disulfide	ND		1.00		ug/L			09/30/13 13:30	1
Carbon tetrachloride	ND		1.00		ug/L			09/30/13 13:30	1
Chlorobenzene	ND		1.00		ug/L			09/30/13 13:30	1
Chlorodibromomethane	ND		1.00		ug/L			09/30/13 13:30	1
Chloroethane	ND		1.00		ug/L			09/30/13 13:30	1
Chloroform	ND		1.00		ug/L			09/30/13 13:30	1
Chloromethane	ND		1.00		ug/L			09/30/13 13:30	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/30/13 13:30	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/30/13 13:30	1
Dibromomethane	ND		1.00		ug/L			09/30/13 13:30	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/30/13 13:30	1
Ethylbenzene	ND		1.00		ug/L			09/30/13 13:30	1
Hexachlorobutadiene	ND		2.00		ug/L			09/30/13 13:30	1
Isopropylbenzene	ND		1.00		ug/L			09/30/13 13:30	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/30/13 13:30	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-110755/7

Matrix: Water

Analysis Batch: 110755

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Methylene Chloride	ND				5.00		ug/L			09/30/13 13:30	1
Naphthalene	ND				5.00		ug/L			09/30/13 13:30	1
n-Butylbenzene	ND				1.00		ug/L			09/30/13 13:30	1
N-Propylbenzene	ND				1.00		ug/L			09/30/13 13:30	1
p-Isopropyltoluene	ND				1.00		ug/L			09/30/13 13:30	1
sec-Butylbenzene	ND				1.00		ug/L			09/30/13 13:30	1
Styrene	ND				1.00		ug/L			09/30/13 13:30	1
tert-Butylbenzene	ND				1.00		ug/L			09/30/13 13:30	1
Tetrachloroethene	ND				1.00		ug/L			09/30/13 13:30	1
Toluene	ND				1.00		ug/L			09/30/13 13:30	1
trans-1,2-Dichloroethene	ND				1.00		ug/L			09/30/13 13:30	1
trans-1,3-Dichloropropene	ND				1.00		ug/L			09/30/13 13:30	1
Trichloroethene	ND				1.00		ug/L			09/30/13 13:30	1
Trichlorofluoromethane	ND				1.00		ug/L			09/30/13 13:30	1
Vinyl chloride	ND				1.00		ug/L			09/30/13 13:30	1
Xylenes, Total	ND				2.00		ug/L			09/30/13 13:30	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloroethane-d4 (Surr)	87		87		70 - 130			09/30/13 13:30	1
4-Bromofluorobenzene (Surr)	110		110		70 - 130			09/30/13 13:30	1
Dibromofluoromethane (Surr)	89		89		70 - 130			09/30/13 13:30	1
Toluene-d8 (Surr)	95		95		70 - 130			09/30/13 13:30	1

Lab Sample ID: LCS 490-110755/3

Matrix: Water

Analysis Batch: 110755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MB	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier	Unit					
1,1,1,2-Tetrachloroethane	50.0	49.60		ug/L		99	74 - 135		
1,1,1-Trichloroethane	50.0	51.40		ug/L		103	78 - 135		
1,1,2,2-Tetrachloroethane	50.0	61.05		ug/L		122	69 - 131		
1,1,2-Trichloroethane	50.0	54.53		ug/L		109	80 - 124		
1,1-Dichloroethane	50.0	54.09		ug/L		108	78 - 125		
1,1-Dichloroethene	50.0	60.03		ug/L		120	79 - 124		
1,1-Dichloropropene	50.0	51.16		ug/L		102	80 - 122		
1,2,3-Trichlorobenzene	50.0	42.94		ug/L		86	62 - 133		
1,2,3-Trichloropropane	50.0	52.49		ug/L		105	70 - 131		
1,2,4-Trichlorobenzene	50.0	43.50		ug/L		87	63 - 133		
1,2,4-Trimethylbenzene	50.0	53.77		ug/L		108	77 - 126		
1,2-Dibromo-3-Chloropropane	50.0	48.88		ug/L		98	54 - 125		
1,2-Dibromoethane (EDB)	50.0	53.25		ug/L		107	80 - 129		
1,2-Dichlorobenzene	50.0	50.08		ug/L		100	80 - 121		
1,2-Dichloroethane	50.0	44.41		ug/L		89	77 - 121		
1,2-Dichloropropane	50.0	52.09		ug/L		104	75 - 120		
1,3,5-Trimethylbenzene	50.0	54.63		ug/L		109	77 - 127		
1,3-Dichlorobenzene	50.0	51.25		ug/L		102	80 - 122		
1,3-Dichloropropane	50.0	50.94		ug/L		102	80 - 125		
1,4-Dichlorobenzene	50.0	51.07		ug/L		102	80 - 120		

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-110755/3

Matrix: Water

Analysis Batch: 110755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
2,2-Dichloropropane	50.0	52.00		ug/L		104	43 - 161
2-Butanone (MEK)	250	293.8		ug/L		118	62 - 133
2-Chlorotoluene	50.0	53.71		ug/L		107	75 - 126
2-Hexanone	250	280.8		ug/L		112	60 - 142
4-Chlorotoluene	50.0	53.53		ug/L		107	75 - 130
4-Methyl-2-pentanone (MIBK)	250	288.9		ug/L		116	60 - 137
Acetone	250	298.9		ug/L		120	54 - 145
Benzene	50.0	54.17		ug/L		108	80 - 121
Bromobenzene	50.0	57.02		ug/L		114	68 - 130
Bromoform	50.0	48.17		ug/L		96	78 - 129
Bromodichloromethane	50.0	53.72		ug/L		107	75 - 129
Bromoform	50.0	46.00		ug/L		92	46 - 145
Bromomethane	50.0	46.92		ug/L		94	41 - 150
Carbon disulfide	50.0	58.51		ug/L		117	77 - 126
Carbon tetrachloride	50.0	49.71		ug/L		99	64 - 147
Chlorobenzene	50.0	50.45		ug/L		101	80 - 120
Chlorodibromomethane	50.0	54.63		ug/L		109	69 - 133
Chloroethane	50.0	56.49		ug/L		113	72 - 120
Chloroform	50.0	47.64		ug/L		95	73 - 129
Chloromethane	50.0	55.77		ug/L		112	12 - 150
cis-1,2-Dichloroethene	50.0	49.89		ug/L		100	76 - 125
cis-1,3-Dichloropropene	50.0	55.87		ug/L		112	74 - 140
Dibromomethane	50.0	51.75		ug/L		103	71 - 125
Dichlorodifluoromethane	50.0	51.58		ug/L		103	37 - 127
Ethylbenzene	50.0	52.12		ug/L		104	80 - 130
Hexachlorobutadiene	50.0	45.60		ug/L		91	49 - 146
Isopropylbenzene	50.0	53.34		ug/L		107	80 - 141
Methyl tert-butyl ether	50.0	51.02		ug/L		102	72 - 133
Methylene Chloride	50.0	56.14		ug/L		112	79 - 123
Naphthalene	50.0	51.30		ug/L		103	62 - 138
n-Butylbenzene	50.0	52.82		ug/L		106	68 - 132
N-Propylbenzene	50.0	54.92		ug/L		110	75 - 129
p-Isopropyltoluene	50.0	53.76		ug/L		108	75 - 128
sec-Butylbenzene	50.0	55.18		ug/L		110	76 - 128
Styrene	50.0	55.69		ug/L		111	80 - 127
tert-Butylbenzene	50.0	48.90		ug/L		98	76 - 126
Tetrachloroethene	50.0	43.87		ug/L		88	80 - 126
Toluene	50.0	54.58		ug/L		109	80 - 126
trans-1,2-Dichloroethene	50.0	52.85		ug/L		106	79 - 126
trans-1,3-Dichloropropene	50.0	54.49		ug/L		109	63 - 134
Trichloroethene	50.0	48.96		ug/L		98	80 - 123
Trichlorofluoromethane	50.0	47.70		ug/L		95	65 - 124
Vinyl chloride	50.0	58.87		ug/L		118	68 - 120
Xylenes, Total	100	108.5		ug/L		109	80 - 132

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-110755/3

Matrix: Water

Analysis Batch: 110755

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)			92		70 - 130
Toluene-d8 (Surr)			98		70 - 130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Lab Sample ID: LCSD 490-110755/4

Matrix: Water

Analysis Batch: 110755

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec.		RPD	Limit	9
		Result	Qualifier				Limits	RPD			
1,1,1,2-Tetrachloroethane	50.0	50.37		ug/L		101	74 - 135	2	16	10	
1,1,1-Trichloroethane	50.0	50.62		ug/L		101	78 - 135	2	17	11	
1,1,2,2-Tetrachloroethane	50.0	62.58		ug/L		125	69 - 131	2	20	12	
1,1,2-Trichloroethane	50.0	55.23		ug/L		110	80 - 124	1	15	13	
1,1-Dichloroethane	50.0	54.60		ug/L		109	78 - 125	1	17		
1,1-Dichloroethene	50.0	58.26		ug/L		117	79 - 124	3	17		
1,1-Dichloropropene	50.0	51.13		ug/L		102	80 - 122	0	17		
1,2,3-Trichlorobenzene	50.0	45.63		ug/L		91	62 - 133	6	25		
1,2,3-Trichloropropane	50.0	53.71		ug/L		107	70 - 131	2	19		
1,2,4-Trichlorobenzene	50.0	46.29		ug/L		93	63 - 133	6	19		
1,2,4-Trimethylbenzene	50.0	55.00		ug/L		110	77 - 126	2	16		
1,2-Dibromo-3-Chloropropane	50.0	51.27		ug/L		103	54 - 125	5	24		
1,2-Dibromoethane (EDB)	50.0	54.22		ug/L		108	80 - 129	2	15		
1,2-Dichlorobenzene	50.0	51.77		ug/L		104	80 - 121	3	15		
1,2-Dichloroethane	50.0	45.05		ug/L		90	77 - 121	1	17		
1,2-Dichloropropene	50.0	52.21		ug/L		104	75 - 120	0	17		
1,3,5-Trimethylbenzene	50.0	55.90		ug/L		112	77 - 127	2	17		
1,3-Dichlorobenzene	50.0	53.12		ug/L		106	80 - 122	4	15		
1,3-Dichloropropane	50.0	51.32		ug/L		103	80 - 125	1	14		
1,4-Dichlorobenzene	50.0	52.33		ug/L		105	80 - 120	2	15		
2,2-Dichloropropane	50.0	49.88		ug/L		100	43 - 161	4	18		
2-Butanone (MEK)	250	295.4		ug/L		118	62 - 133	1	19		
2-Chlorotoluene	50.0	55.16		ug/L		110	75 - 126	3	17		
2-Hexanone	250	286.3		ug/L		115	60 - 142	2	15		
4-Chlorotoluene	50.0	54.50		ug/L		109	75 - 130	2	18		
4-Methyl-2-pentanone (MIBK)	250	287.5		ug/L		115	60 - 137	1	17		
Acetone	250	307.4		ug/L		123	54 - 145	3	21		
Benzene	50.0	53.83		ug/L		108	80 - 121	1	17		
Bromobenzene	50.0	58.46		ug/L		117	68 - 130	2	20		
Bromochloromethane	50.0	49.05		ug/L		98	78 - 129	2	17		
Bromodichloromethane	50.0	54.13		ug/L		108	75 - 129	1	18		
Bromoform	50.0	46.71		ug/L		93	46 - 145	2	16		
Bromomethane	50.0	46.79		ug/L		94	41 - 150	0	50		
Carbon disulfide	50.0	56.66		ug/L		113	77 - 126	3	21		
Carbon tetrachloride	50.0	47.99		ug/L		96	64 - 147	4	19		
Chlorobenzene	50.0	50.51		ug/L		101	80 - 120	0	14		
Chlorodibromomethane	50.0	55.27		ug/L		111	69 - 133	1	15		
Chloroethane	50.0	56.20		ug/L		112	72 - 120	1	20		
Chloroform	50.0	47.14		ug/L		94	73 - 129	1	18		
Chloromethane	50.0	54.27		ug/L		109	12 - 150	3	31		

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-110755/4

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analysis Batch: 110755

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec.		RPD	RPD Limit
		Result	Qualifier				Limits	RPD		
cis-1,2-Dichloroethene	50.0	49.72		ug/L		99	76 - 125	0	17	
cis-1,3-Dichloropropene	50.0	56.35		ug/L		113	74 - 140	1	15	
Dibromomethane	50.0	52.19		ug/L		104	71 - 125	1	16	
Dichlorodifluoromethane	50.0	51.87		ug/L		104	37 - 127	1	18	
Ethylbenzene	50.0	52.41		ug/L		105	80 - 130	1	15	
Hexachlorobutadiene	50.0	48.03		ug/L		96	49 - 146	5	23	
Isopropylbenzene	50.0	53.04		ug/L		106	80 - 141	1	16	
Methyl tert-butyl ether	50.0	51.99		ug/L		104	72 - 133	2	16	
Methylene Chloride	50.0	57.19		ug/L		114	79 - 123	2	17	
Naphthalene	50.0	54.15		ug/L		108	62 - 138	5	26	
n-Butylbenzene	50.0	53.95		ug/L		108	68 - 132	2	18	
N-Propylbenzene	50.0	55.47		ug/L		111	75 - 129	1	17	
p-Isopropyltoluene	50.0	55.04		ug/L		110	75 - 128	2	16	
sec-Butylbenzene	50.0	56.03		ug/L		112	76 - 128	2	16	
Styrene	50.0	56.08		ug/L		112	80 - 127	1	24	
tert-Butylbenzene	50.0	49.94		ug/L		100	76 - 126	2	16	
Tetrachloroethene	50.0	43.21		ug/L		86	80 - 126	2	16	
Toluene	50.0	54.34		ug/L		109	80 - 126	0	15	
trans-1,2-Dichloroethene	50.0	52.29		ug/L		105	79 - 126	1	16	
trans-1,3-Dichloropropene	50.0	55.43		ug/L		111	63 - 134	2	14	
Trichloroethene	50.0	49.07		ug/L		98	80 - 123	0	17	
Trichlorofluoromethane	50.0	47.95		ug/L		96	65 - 124	1	18	
Vinyl chloride	50.0	57.85		ug/L		116	68 - 120	2	17	
Xylenes, Total	100	108.7		ug/L		109	80 - 132	0	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Nashville

QC Association Summary

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

GC/MS VOA

Analysis Batch: 110755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35853-1	MW-1	Total/NA	Water	8260B	5
490-35853-2	MW-2	Total/NA	Water	8260B	6
490-35853-3	MW-3	Total/NA	Water	8260B	7
490-35853-4	MW-4	Total/NA	Water	8260B	8
490-35853-5	MW-5	Total/NA	Water	8260B	9
490-35853-6	AR-1	Total/NA	Water	8260B	10
490-35853-7	RW-1	Total/NA	Water	8260B	11
490-35853-8	FB	Total/NA	Water	8260B	12
490-35853-9	Trip Blank	Total/NA	Water	8260B	13
LCS 490-110755/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-110755/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-110755/7	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: MW-1

Date Collected: 09/17/13 14:25
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110755	09/30/13 16:52	MJH	TAL NSH

Client Sample ID: MW-2

Date Collected: 09/17/13 15:25
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110755	09/30/13 17:20	MJH	TAL NSH

Client Sample ID: MW-3

Date Collected: 09/18/13 11:10
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5000	110755	09/30/13 22:03	MJH	TAL NSH

Client Sample ID: MW-4

Date Collected: 09/18/13 10:30
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110755	09/30/13 18:15	MJH	TAL NSH

Client Sample ID: MW-5

Date Collected: 09/18/13 08:30
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110755	09/30/13 17:47	MJH	TAL NSH

Client Sample ID: AR-1

Date Collected: 09/18/13 10:05
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	110755	09/30/13 20:13	MJH	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Client Sample ID: RW-1

Date Collected: 09/18/13 09:20
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	110755	09/30/13 20:41	MJH	TAL NSH

Client Sample ID: FB

Date Collected: 09/18/13 16:00
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110755	09/30/13 15:57	MJH	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 09/18/13 00:01
Date Received: 09/20/13 15:50

Lab Sample ID: 490-35853-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110755	09/30/13 16:25	MJH	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Nashville

Method Summary

Client: Triad Environmental Consultants
Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Certification Summary

Client: Triad Environmental Consultants
 Project/Site: ELMCO - 07-ELM01-01

TestAmerica Job ID: 490-35853-1

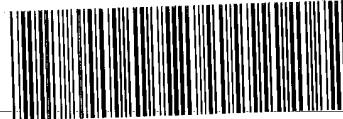
Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

COOLER RECEIPT FORM



490-35853 Chain of Custody

Cooler Received/Opened On: 2/20/13 @ 15:501. Tracking # 5 Street (last 4 digits, FedEx)Courier: Street IR Gun ID: 147404562. Temperature of rep. sample or temp blank when opened: 5.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ECA7. Were custody seals on containers: YES and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence # NAI certify that I unloaded the cooler and answered questions 7-14 (initial) ECA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ECA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ECAI certify that I attached a label with the unique LIMS number to each container (initial) ECA

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#

Chain of Custody Record

TestAmerica

Client Information		Sampler: Jason Baker		Lab P/M: Heather		Carrier Tracking No(s): 888-1-6888	
Client Contact: Mr. Chris Scott	Phone:	E-Mail:					COC No.: 490-15401-6536-1
Company: Triad Environmental Consultants							Page: Page 1 of 1
Analysis Requested							
Address: 207 Donelson Pike Suite 200		Due Date Requested:		TAT Requested (days):		Job #:	
City: Nashville	State, Zip: TN 37214	Phone: 615-889-6888 (Tel) Email: cscott@triadenv.com	Project Name: ELMCO - 07-ELM01-01	PO#: Purchase Order not required WQ#: 07-ELM01-01	Project #: 49001658	SSON#:	Site:
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=Issue, A=Arr)	Total Number of containers	Preservation Codes:
MW-1	9/18/13	1425	G	Water	X	A	A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonium H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SCo3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MeCAA W - pH 4-5 Z - other (specify)
MW-2	9/18/13	1525		Water	X		
MW-3	9/18/13	1110		Water			
MW-4	9/18/13	1030		Water			
MW-5	9/18/13	830		Water			
AR-1	9/18/13	1005		Water			
RW-1	9/18/13	920	✓	Water			
FB	9/18/13	1800		Water	✓		
Trip Blank							
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:			
Empty Kit Relinquished by: 	Date:	Time:		Method of Shipment:			
Relinquished By: 	Date/Time:	Received by:	5.9	Date/Time:	9/20/13 15:50	Company:	
Reinquished By: 	Date/Time:	Received by:		Date/Time:	9/20/13 15:50	Company:	
Relinquished by:	Date/Time:	Received by:		Date/Time:		Company:	
Custody Seals Infact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 			
Δ Yes Δ No							

Login Sample Receipt Checklist

Client: Triad Environmental Consultants

Job Number: 490-35853-1

Login Number: 35853

List Source: TestAmerica Nashville

List Number: 1

Creator: Abernathy, Eric

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-38362-1

Client Project/Site: ELMCO

For:

Triad Environmental Consultants

207 Donelson Pike

Nashville, Tennessee 37214

Attn: Mr. Chris Scott

Heather Baker

Authorized for release by:

10/30/2013 3:55:36 PM

Heather Baker, Project Manager I

(615)301-5043

heather.baker@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	10
QC Association	34
Chronicle	35
Method Summary	36
Certification Summary	37
Chain of Custody	38
Receipt Checklists	40

Sample Summary

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-38362-1	MW-3	Ground Water	10/22/13 13:10	10/22/13 15:30
490-38362-2	Trip	Water	10/22/13 00:01	10/22/13 15:30

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TestAmerica Nashville

Case Narrative

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Job ID: 490-38362-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-38362-1

Comments

No additional comments.

Receipt

The samples were received on 10/22/2013 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 117088 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 117088 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: MW-3 (490-38362-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 117436 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: Acetone was detected in the following sample above the instrument calibration range: MW-3 (490-38362-1). This analyte was below the reporting limit upon re-analysis at a higher dilution due to very high concentrations of other target analytes.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 117736 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 8260B: The method blank for preparation batch 117736 contained Trichloroethene above the reporting limit (RL). None of the samples associated with this method blank reported the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Client Sample ID: MW-3

Date Collected: 10/22/13 13:10
Date Received: 10/22/13 15:30

Lab Sample ID: 490-38362-1

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/26/13 09:51	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/26/13 09:51	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/26/13 09:51	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/26/13 09:51	1
1,1-Dichloroethane	ND		1.00		ug/L			10/26/13 09:51	1
1,1-Dichloroethene	ND		1.00		ug/L			10/26/13 09:51	1
1,1-Dichloropropene	ND		1.00		ug/L			10/26/13 09:51	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/26/13 09:51	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/26/13 09:51	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/26/13 09:51	1
1,2,4-Trimethylbenzene	17.5		1.00		ug/L			10/26/13 09:51	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/26/13 09:51	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/26/13 09:51	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/26/13 09:51	1
1,2-Dichloroethane	ND		1.00		ug/L			10/26/13 09:51	1
1,2-Dichloropropane	ND		1.00		ug/L			10/26/13 09:51	1
1,3,5-Trimethylbenzene	4.71		1.00		ug/L			10/26/13 09:51	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/26/13 09:51	1
1,3-Dichloropropane	ND		1.00		ug/L			10/26/13 09:51	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/26/13 09:51	1
2,2-Dichloropropane	ND		1.00		ug/L			10/26/13 09:51	1
2-Butanone (MEK)	476		50.0		ug/L			10/26/13 09:51	1
2-Chlorotoluene	ND		1.00		ug/L			10/26/13 09:51	1
2-Hexanone	ND		5.00		ug/L			10/26/13 09:51	1
4-Chlorotoluene	ND		1.00		ug/L			10/26/13 09:51	1
4-Methyl-2-pentanone (MIBK)	74.6		5.00		ug/L			10/26/13 09:51	1
Acetone	1920 E		5.00		ug/L			10/26/13 09:51	1
Benzene	15.9		1.00		ug/L			10/26/13 09:51	1
Bromobenzene	ND		1.00		ug/L			10/26/13 09:51	1
Bromochloromethane	ND		1.00		ug/L			10/26/13 09:51	1
Bromodichloromethane	ND		1.00		ug/L			10/26/13 09:51	1
Bromoform	ND		1.00		ug/L			10/26/13 09:51	1
Bromomethane	ND		1.00		ug/L			10/26/13 09:51	1
Carbon disulfide	2.05		1.00		ug/L			10/26/13 09:51	1
Carbon tetrachloride	ND		1.00		ug/L			10/26/13 09:51	1
Chlorobenzene	ND		1.00		ug/L			10/26/13 09:51	1
Chlorodibromomethane	ND		1.00		ug/L			10/26/13 09:51	1
Chloroethane	ND		1.00		ug/L			10/26/13 09:51	1
Chloroform	ND		1.00		ug/L			10/26/13 09:51	1
Chloromethane	ND		1.00		ug/L			10/26/13 09:51	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/26/13 09:51	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/26/13 09:51	1
Dibromomethane	ND		1.00		ug/L			10/26/13 09:51	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/26/13 09:51	1
Ethylbenzene	179		1.00		ug/L			10/26/13 09:51	1
Hexachlorobutadiene	ND		2.00		ug/L			10/26/13 09:51	1
Isopropylbenzene	3.44		1.00		ug/L			10/26/13 09:51	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/26/13 09:51	1
Methylene Chloride	ND		5.00		ug/L			10/26/13 09:51	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Client Sample ID: MW-3
Date Collected: 10/22/13 13:10
Date Received: 10/22/13 15:30

Lab Sample ID: 490-38362-1
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			10/26/13 09:51	1
n-Butylbenzene	ND		1.00		ug/L			10/26/13 09:51	1
N-Propylbenzene	3.57		1.00		ug/L			10/26/13 09:51	1
p-Isopropyltoluene	ND		1.00		ug/L			10/26/13 09:51	1
sec-Butylbenzene	ND		1.00		ug/L			10/26/13 09:51	1
Styrene	ND		1.00		ug/L			10/26/13 09:51	1
tert-Butylbenzene	ND		1.00		ug/L			10/26/13 09:51	1
Tetrachloroethene	ND		1.00		ug/L			10/26/13 09:51	1
Toluene	425000		5000		ug/L			10/29/13 17:10	5000
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/26/13 09:51	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/26/13 09:51	1
Trichloroethene	ND		1.00		ug/L			10/26/13 09:51	1
Trichlorofluoromethane	ND		1.00		ug/L			10/26/13 09:51	1
Vinyl chloride	ND		1.00		ug/L			10/26/13 09:51	1
Xylenes, Total	1190		200		ug/L			10/29/13 03:31	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	42	X	70 - 130					10/26/13 09:51	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 130					10/29/13 03:31	100
1,2-Dichloroethane-d4 (Surr)	114		70 - 130					10/29/13 17:10	5000
4-Bromofluorobenzene (Surr)	100		70 - 130					10/26/13 09:51	1
4-Bromofluorobenzene (Surr)	96		70 - 130					10/29/13 03:31	100
4-Bromofluorobenzene (Surr)	93		70 - 130					10/29/13 17:10	5000
Dibromofluoromethane (Surr)	97		70 - 130					10/26/13 09:51	1
Dibromofluoromethane (Surr)	107		70 - 130					10/29/13 03:31	100
Dibromofluoromethane (Surr)	104		70 - 130					10/29/13 17:10	5000
Toluene-d8 (Surr)	9	X	70 - 130					10/26/13 09:51	1
Toluene-d8 (Surr)	96		70 - 130					10/29/13 03:31	100
Toluene-d8 (Surr)	96		70 - 130					10/29/13 17:10	5000

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Client Sample ID: Trip

Date Collected: 10/22/13 00:01
Date Received: 10/22/13 15:30

Lab Sample ID: 490-38362-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/26/13 07:04	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/26/13 07:04	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/26/13 07:04	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/26/13 07:04	1
1,1-Dichloroethane	ND		1.00		ug/L			10/26/13 07:04	1
1,1-Dichloroethene	ND		1.00		ug/L			10/26/13 07:04	1
1,1-Dichloropropene	ND		1.00		ug/L			10/26/13 07:04	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/26/13 07:04	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/26/13 07:04	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/26/13 07:04	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/26/13 07:04	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/26/13 07:04	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/26/13 07:04	1
1,2-Dichloroethane	ND		1.00		ug/L			10/26/13 07:04	1
1,2-Dichloropropane	ND		1.00		ug/L			10/26/13 07:04	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/26/13 07:04	1
1,3-Dichloropropane	ND		1.00		ug/L			10/26/13 07:04	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/26/13 07:04	1
2,2-Dichloropropane	ND		1.00		ug/L			10/26/13 07:04	1
2-Butanone (MEK)	ND		50.0		ug/L			10/26/13 07:04	1
2-Chlorotoluene	ND		1.00		ug/L			10/26/13 07:04	1
2-Hexanone	ND		5.00		ug/L			10/26/13 07:04	1
4-Chlorotoluene	ND		1.00		ug/L			10/26/13 07:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/26/13 07:04	1
Acetone	ND		5.00		ug/L			10/26/13 07:04	1
Benzene	ND		1.00		ug/L			10/26/13 07:04	1
Bromobenzene	ND		1.00		ug/L			10/26/13 07:04	1
Bromochloromethane	ND		1.00		ug/L			10/26/13 07:04	1
Bromodichloromethane	ND		1.00		ug/L			10/26/13 07:04	1
Bromoform	ND		1.00		ug/L			10/26/13 07:04	1
Bromomethane	ND		1.00		ug/L			10/26/13 07:04	1
Carbon disulfide	ND		1.00		ug/L			10/26/13 07:04	1
Carbon tetrachloride	ND		1.00		ug/L			10/26/13 07:04	1
Chlorobenzene	ND		1.00		ug/L			10/26/13 07:04	1
Chlorodibromomethane	ND		1.00		ug/L			10/26/13 07:04	1
Chloroethane	ND		1.00		ug/L			10/26/13 07:04	1
Chloroform	ND		1.00		ug/L			10/26/13 07:04	1
Chloromethane	ND		1.00		ug/L			10/26/13 07:04	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/26/13 07:04	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/26/13 07:04	1
Dibromomethane	ND		1.00		ug/L			10/26/13 07:04	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/26/13 07:04	1
Ethylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
Hexachlorobutadiene	ND		2.00		ug/L			10/26/13 07:04	1
Isopropylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/26/13 07:04	1
Methylene Chloride	ND		5.00		ug/L			10/26/13 07:04	1

TestAmerica Nashville

Client Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Client Sample ID: Trip

Date Collected: 10/22/13 00:01
Date Received: 10/22/13 15:30

Lab Sample ID: 490-38362-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			10/26/13 07:04	1
n-Butylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
N-Propylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
p-Isopropyltoluene	ND		1.00		ug/L			10/26/13 07:04	1
sec-Butylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
Styrene	ND		1.00		ug/L			10/26/13 07:04	1
tert-Butylbenzene	ND		1.00		ug/L			10/26/13 07:04	1
Tetrachloroethene	ND		1.00		ug/L			10/26/13 07:04	1
Toluene	ND		1.00		ug/L			10/26/13 07:04	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/26/13 07:04	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/26/13 07:04	1
Trichloroethene	ND		1.00		ug/L			10/26/13 07:04	1
Trichlorofluoromethane	ND		1.00		ug/L			10/26/13 07:04	1
Vinyl chloride	ND		1.00		ug/L			10/26/13 07:04	1
Xylenes, Total	ND		2.00		ug/L			10/26/13 07:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					10/26/13 07:04	1
4-Bromofluorobenzene (Surr)	99		70 - 130					10/26/13 07:04	1
Dibromofluoromethane (Surr)	99		70 - 130					10/26/13 07:04	1
Toluene-d8 (Surr)	99		70 - 130					10/26/13 07:04	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-117088/7

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/26/13 05:41	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/26/13 05:41	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/26/13 05:41	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/26/13 05:41	1
1,1-Dichloroethane	ND		1.00		ug/L			10/26/13 05:41	1
1,1-Dichloroethene	ND		1.00		ug/L			10/26/13 05:41	1
1,1-Dichloropropene	ND		1.00		ug/L			10/26/13 05:41	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/26/13 05:41	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/26/13 05:41	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/26/13 05:41	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/26/13 05:41	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/26/13 05:41	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/26/13 05:41	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/26/13 05:41	1
1,2-Dichloroethane	ND		1.00		ug/L			10/26/13 05:41	1
1,2-Dichloropropane	ND		1.00		ug/L			10/26/13 05:41	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/26/13 05:41	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/26/13 05:41	1
1,3-Dichloropropane	ND		1.00		ug/L			10/26/13 05:41	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/26/13 05:41	1
2,2-Dichloropropane	ND		1.00		ug/L			10/26/13 05:41	1
2-Butanone (MEK)	ND		50.0		ug/L			10/26/13 05:41	1
2-Chlorotoluene	ND		1.00		ug/L			10/26/13 05:41	1
2-Hexanone	ND		5.00		ug/L			10/26/13 05:41	1
4-Chlorotoluene	ND		1.00		ug/L			10/26/13 05:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/26/13 05:41	1
Acetone	ND		5.00		ug/L			10/26/13 05:41	1
Benzene	ND		1.00		ug/L			10/26/13 05:41	1
Bromobenzene	ND		1.00		ug/L			10/26/13 05:41	1
Bromochloromethane	ND		1.00		ug/L			10/26/13 05:41	1
Bromodichloromethane	ND		1.00		ug/L			10/26/13 05:41	1
Bromoform	ND		1.00		ug/L			10/26/13 05:41	1
Bromomethane	ND		1.00		ug/L			10/26/13 05:41	1
Carbon disulfide	ND		1.00		ug/L			10/26/13 05:41	1
Carbon tetrachloride	ND		1.00		ug/L			10/26/13 05:41	1
Chlorobenzene	ND		1.00		ug/L			10/26/13 05:41	1
Chlorodibromomethane	ND		1.00		ug/L			10/26/13 05:41	1
Chloroethane	ND		1.00		ug/L			10/26/13 05:41	1
Chloroform	ND		1.00		ug/L			10/26/13 05:41	1
Chloromethane	ND		1.00		ug/L			10/26/13 05:41	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/26/13 05:41	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/26/13 05:41	1
Dibromomethane	ND		1.00		ug/L			10/26/13 05:41	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/26/13 05:41	1
Ethylbenzene	ND		1.00		ug/L			10/26/13 05:41	1
Hexachlorobutadiene	ND		2.00		ug/L			10/26/13 05:41	1
Isopropylbenzene	ND		1.00		ug/L			10/26/13 05:41	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/26/13 05:41	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-117088/7

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Methylene Chloride	ND				5.00		ug/L			10/26/13 05:41	1
Naphthalene	ND				5.00		ug/L			10/26/13 05:41	1
n-Butylbenzene	ND				1.00		ug/L			10/26/13 05:41	1
N-Propylbenzene	ND				1.00		ug/L			10/26/13 05:41	1
p-Isopropyltoluene	ND				1.00		ug/L			10/26/13 05:41	1
sec-Butylbenzene	ND				1.00		ug/L			10/26/13 05:41	1
Styrene	ND				1.00		ug/L			10/26/13 05:41	1
tert-Butylbenzene	ND				1.00		ug/L			10/26/13 05:41	1
Tetrachloroethene	ND				1.00		ug/L			10/26/13 05:41	1
Toluene	ND				1.00		ug/L			10/26/13 05:41	1
trans-1,2-Dichloroethene	ND				1.00		ug/L			10/26/13 05:41	1
trans-1,3-Dichloropropene	ND				1.00		ug/L			10/26/13 05:41	1
Trichloroethene	ND				1.00		ug/L			10/26/13 05:41	1
Trichlorofluoromethane	ND				1.00		ug/L			10/26/13 05:41	1
Vinyl chloride	ND				1.00		ug/L			10/26/13 05:41	1
Xylenes, Total	ND				2.00		ug/L			10/26/13 05:41	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2-Dichloroethane-d4 (Surr)	101		101		70 - 130		10/26/13 05:41	1
4-Bromofluorobenzene (Surr)	97		97		70 - 130		10/26/13 05:41	1
Dibromofluoromethane (Surr)	97		97		70 - 130		10/26/13 05:41	1
Toluene-d8 (Surr)	100		100		70 - 130		10/26/13 05:41	1

Lab Sample ID: LCS 490-117088/3

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MB	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier	Unit					
1,1,1,2-Tetrachloroethane	50.0	48.68		ug/L		97	74 - 135		
1,1,1-Trichloroethane	50.0	44.67		ug/L		89	78 - 135		
1,1,2,2-Tetrachloroethane	50.0	47.34		ug/L		95	69 - 131		
1,1,2-Trichloroethane	50.0	46.74		ug/L		93	80 - 124		
1,1-Dichloroethane	50.0	46.96		ug/L		94	78 - 125		
1,1-Dichloroethene	50.0	45.23		ug/L		90	79 - 124		
1,1-Dichloropropene	50.0	46.20		ug/L		92	80 - 122		
1,2,3-Trichlorobenzene	50.0	52.33		ug/L		105	62 - 133		
1,2,3-Trichloropropane	50.0	45.96		ug/L		92	70 - 131		
1,2,4-Trichlorobenzene	50.0	48.79		ug/L		98	63 - 133		
1,2,4-Trimethylbenzene	50.0	49.62		ug/L		99	77 - 126		
1,2-Dibromo-3-Chloropropane	50.0	46.17		ug/L		92	54 - 125		
1,2-Dibromoethane (EDB)	50.0	47.31		ug/L		95	80 - 129		
1,2-Dichlorobenzene	50.0	48.96		ug/L		98	80 - 121		
1,2-Dichloroethane	50.0	45.51		ug/L		91	77 - 121		
1,2-Dichloropropane	50.0	48.82		ug/L		98	75 - 120		
1,3,5-Trimethylbenzene	50.0	49.43		ug/L		99	77 - 127		
1,3-Dichlorobenzene	50.0	48.84		ug/L		98	80 - 122		
1,3-Dichloropropane	50.0	49.74		ug/L		99	80 - 125		
1,4-Dichlorobenzene	50.0	48.19		ug/L		96	80 - 120		

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-117088/3

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
2,2-Dichloropropane	50.0	42.44		ug/L		85	43 - 161
2-Butanone (MEK)	250	240.9		ug/L		96	62 - 133
2-Chlorotoluene	50.0	48.05		ug/L		96	75 - 126
2-Hexanone	250	285.1		ug/L		114	60 - 142
4-Chlorotoluene	50.0	48.35		ug/L		97	75 - 130
4-Methyl-2-pentanone (MIBK)	250	272.8		ug/L		109	60 - 137
Acetone	250	262.1		ug/L		105	54 - 145
Benzene	50.0	45.95		ug/L		92	80 - 121
Bromobenzene	50.0	48.77		ug/L		98	68 - 130
Bromoform	50.0	43.64		ug/L		87	78 - 129
Bromochloromethane	50.0	47.19		ug/L		94	75 - 129
Bromodichloromethane	50.0	49.73		ug/L		99	46 - 145
Bromomethane	50.0	43.64		ug/L		87	41 - 150
Carbon disulfide	50.0	46.42		ug/L		93	77 - 126
Carbon tetrachloride	50.0	45.39		ug/L		91	64 - 147
Chlorobenzene	50.0	47.14		ug/L		94	80 - 120
Chlorodibromomethane	50.0	48.73		ug/L		97	69 - 133
Chloroethane	50.0	50.88		ug/L		102	72 - 120
Chloroform	50.0	44.29		ug/L		89	73 - 129
Chloromethane	50.0	47.29		ug/L		95	12 - 150
cis-1,2-Dichloroethene	50.0	46.55		ug/L		93	76 - 125
cis-1,3-Dichloropropene	50.0	50.08		ug/L		100	74 - 140
Dibromomethane	50.0	46.47		ug/L		93	71 - 125
Dichlorodifluoromethane	50.0	52.49		ug/L		105	37 - 127
Ethylbenzene	50.0	49.57		ug/L		99	80 - 130
Hexachlorobutadiene	50.0	46.25		ug/L		93	49 - 146
Isopropylbenzene	50.0	49.44		ug/L		99	80 - 141
Methyl tert-butyl ether	50.0	46.80		ug/L		94	72 - 133
Methylene Chloride	50.0	43.31		ug/L		87	79 - 123
Naphthalene	50.0	45.93		ug/L		92	62 - 138
n-Butylbenzene	50.0	51.13		ug/L		102	68 - 132
N-Propylbenzene	50.0	49.76		ug/L		100	75 - 129
p-Isopropyltoluene	50.0	51.15		ug/L		102	75 - 128
sec-Butylbenzene	50.0	51.77		ug/L		104	76 - 128
Styrene	50.0	50.86		ug/L		102	80 - 127
tert-Butylbenzene	50.0	49.59		ug/L		99	76 - 126
Tetrachloroethene	50.0	47.07		ug/L		94	80 - 126
Toluene	50.0	47.64		ug/L		95	80 - 126
trans-1,2-Dichloroethene	50.0	45.85		ug/L		92	79 - 126
trans-1,3-Dichloropropene	50.0	50.80		ug/L		102	63 - 134
Trichloroethene	50.0	46.75		ug/L		94	80 - 123
Trichlorofluoromethane	50.0	48.21		ug/L		96	65 - 124
Vinyl chloride	50.0	49.92		ug/L		100	68 - 120
Xylenes, Total	100	98.01		ug/L		98	80 - 132

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-117088/3

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
Dibromofluoromethane (Sur)	96				70 - 130
Toluene-d8 (Sur)	99				70 - 130

Lab Sample ID: LCSD 490-117088/4

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.14		ug/L	96	74 - 135	1	16	10
1,1,1-Trichloroethane	50.0	45.00		ug/L	90	78 - 135	1	17	11
1,1,2,2-Tetrachloroethane	50.0	48.58		ug/L	97	69 - 131	3	20	12
1,1,2-Trichloroethane	50.0	46.57		ug/L	93	80 - 124	0	15	13
1,1-Dichloroethane	50.0	46.34		ug/L	93	78 - 125	1	17	14
1,1-Dichloroethene	50.0	45.52		ug/L	91	79 - 124	1	17	15
1,1-Dichloropropene	50.0	46.49		ug/L	93	80 - 122	1	17	16
1,2,3-Trichlorobenzene	50.0	55.35		ug/L	111	62 - 133	6	25	17
1,2,3-Trichloropropane	50.0	47.10		ug/L	94	70 - 131	2	19	18
1,2,4-Trichlorobenzene	50.0	51.27		ug/L	103	63 - 133	5	19	19
1,2,4-Trimethylbenzene	50.0	51.93		ug/L	104	77 - 126	5	16	20
1,2-Dibromo-3-Chloropropane	50.0	48.54		ug/L	97	54 - 125	5	24	21
1,2-Dibromoethane (EDB)	50.0	47.17		ug/L	94	80 - 129	0	15	22
1,2-Dichlorobenzene	50.0	49.85		ug/L	100	80 - 121	2	15	23
1,2-Dichloroethane	50.0	44.75		ug/L	89	77 - 121	2	17	24
1,2-Dichloropropane	50.0	48.37		ug/L	97	75 - 120	1	17	25
1,3,5-Trimethylbenzene	50.0	51.72		ug/L	103	77 - 127	5	17	26
1,3-Dichlorobenzene	50.0	49.46		ug/L	99	80 - 122	1	15	27
1,3-Dichloropropane	50.0	49.58		ug/L	99	80 - 125	0	14	28
1,4-Dichlorobenzene	50.0	49.07		ug/L	98	80 - 120	2	15	29
2,2-Dichloropropane	50.0	41.91		ug/L	84	43 - 161	1	18	30
2-Butanone (MEK)	250	232.7		ug/L	93	62 - 133	3	19	31
2-Chlorotoluene	50.0	50.21		ug/L	100	75 - 126	4	17	32
2-Hexanone	250	282.3		ug/L	113	60 - 142	1	15	33
4-Chlorotoluene	50.0	50.45		ug/L	101	75 - 130	4	18	34
4-Methyl-2-pentanone (MIBK)	250	275.1		ug/L	110	60 - 137	1	17	35
Acetone	250	273.4		ug/L	109	54 - 145	4	21	36
Benzene	50.0	45.94		ug/L	92	80 - 121	0	17	37
Bromobenzene	50.0	50.94		ug/L	102	68 - 130	4	20	38
Bromochloromethane	50.0	43.47		ug/L	87	78 - 129	0	17	39
Bromodichloromethane	50.0	47.24		ug/L	94	75 - 129	0	18	40
Bromoform	50.0	49.78		ug/L	100	46 - 145	0	16	41
Bromomethane	50.0	43.90		ug/L	88	41 - 150	1	50	42
Carbon disulfide	50.0	46.05		ug/L	92	77 - 126	1	21	43
Carbon tetrachloride	50.0	45.30		ug/L	91	64 - 147	0	19	44
Chlorobenzene	50.0	46.90		ug/L	94	80 - 120	1	14	45
Chlorodibromomethane	50.0	48.10		ug/L	96	69 - 133	1	15	46
Chloroethane	50.0	50.66		ug/L	101	72 - 120	0	20	47
Chloroform	50.0	43.93		ug/L	88	73 - 129	1	18	48
Chloromethane	50.0	46.57		ug/L	93	12 - 150	2	31	49

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-117088/4

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analysis Batch: 117088

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Added	Result	Qualifier							
cis-1,2-Dichloroethene		50.0	46.70		ug/L		93	76 - 125	0	0	17
cis-1,3-Dichloropropene		50.0	49.86		ug/L		100	74 - 140	0	0	15
Dibromomethane		50.0	46.26		ug/L		93	71 - 125	0	0	16
Dichlorodifluoromethane		50.0	52.26		ug/L		105	37 - 127	0	0	18
Ethylbenzene		50.0	50.01		ug/L		100	80 - 130	1	1	15
Hexachlorobutadiene		50.0	49.63		ug/L		99	49 - 146	7	7	23
Isopropylbenzene		50.0	49.74		ug/L		99	80 - 141	1	1	16
Methyl tert-butyl ether		50.0	46.06		ug/L		92	72 - 133	2	2	16
Methylene Chloride		50.0	42.99		ug/L		86	79 - 123	1	1	17
Naphthalene		50.0	48.51		ug/L		97	62 - 138	5	5	26
n-Butylbenzene		50.0	53.20		ug/L		106	68 - 132	4	4	18
N-Propylbenzene		50.0	52.13		ug/L		104	75 - 129	5	5	17
p-Isopropyltoluene		50.0	52.44		ug/L		105	75 - 128	2	2	16
sec-Butylbenzene		50.0	53.49		ug/L		107	76 - 128	3	3	16
Styrene		50.0	50.76		ug/L		102	80 - 127	0	0	24
tert-Butylbenzene		50.0	52.04		ug/L		104	76 - 126	5	5	16
Tetrachloroethene		50.0	46.87		ug/L		94	80 - 126	0	0	16
Toluene		50.0	47.70		ug/L		95	80 - 126	0	0	15
trans-1,2-Dichloroethene		50.0	46.49		ug/L		93	79 - 126	1	1	16
trans-1,3-Dichloropropene		50.0	50.44		ug/L		101	63 - 134	1	1	14
Trichloroethene		50.0	47.11		ug/L		94	80 - 123	1	1	17
Trichlorofluoromethane		50.0	48.50		ug/L		97	65 - 124	1	1	18
Vinyl chloride		50.0	50.73		ug/L		101	68 - 120	2	2	17
Xylenes, Total		100	98.37		ug/L		98	80 - 132	0	0	15

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 490-37966-B-1 MS

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analysis Batch: 117088

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	51.75		ug/L		103	73 - 141	
1,1,1-Trichloroethane	ND		50.0	51.59		ug/L		103	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	57.49		ug/L		115	56 - 143	
1,1,2-Trichloroethane	ND		50.0	51.33		ug/L		103	74 - 134	
1,1-Dichloroethane	ND		50.0	55.48		ug/L		111	71 - 139	
1,1-Dichloroethene	ND		50.0	51.20		ug/L		102	70 - 142	
1,1-Dichloropropene	ND		50.0	51.44		ug/L		103	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	58.74		ug/L		117	55 - 138	
1,2,3-Trichloropropane	ND		50.0	53.45		ug/L		107	53 - 144	
1,2,4-Trichlorobenzene	ND		50.0	54.39		ug/L		109	60 - 136	
1,2,4-Trimethylbenzene	ND		50.0	53.73		ug/L		107	69 - 136	
1,2-Dibromo-3-Chloropropane	ND		50.0	61.29		ug/L		123	52 - 126	

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37966-B-1 MS

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analysis Batch: 117088

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dibromoethane (EDB)	ND		50.0	52.23		ug/L		104	75 - 137		
1,2-Dichlorobenzene	ND		50.0	55.07		ug/L		110	79 - 128		
1,2-Dichloroethane	ND		50.0	51.19		ug/L		102	64 - 136		
1,2-Dichloropropane	ND		50.0	53.55		ug/L		107	67 - 131		
1,3,5-Trimethylbenzene	ND		50.0	53.04		ug/L		106	69 - 139		
1,3-Dichlorobenzene	ND		50.0	50.43		ug/L		101	77 - 131		
1,3-Dichloropropane	ND		50.0	54.15		ug/L		108	72 - 134		
1,4-Dichlorobenzene	ND		50.0	49.56		ug/L		99	78 - 126		
2,2-Dichloropropane	ND		50.0	41.87		ug/L		84	37 - 175		
2-Butanone (MEK)	ND		250	283.5		ug/L		113	50 - 138		
2-Chlorotoluene	ND		50.0	52.12		ug/L		104	67 - 138		
2-Hexanone	ND		250	383.6 F		ug/L		153	50 - 150		
4-Chlorotoluene	ND		50.0	52.15		ug/L		104	69 - 138		
4-Methyl-2-pentanone (MIBK)	ND		250	360.2		ug/L		144	50 - 147		
Acetone	ND		250	326.8		ug/L		131	45 - 141		
Benzene	ND		50.0	52.02		ug/L		104	75 - 133		
Bromobenzene	ND		50.0	52.60		ug/L		105	60 - 138		
Bromochloromethane	ND		50.0	49.10		ug/L		98	67 - 139		
Bromodichloromethane	ND		50.0	51.63		ug/L		103	70 - 140		
Bromoform	ND		50.0	52.80		ug/L		106	42 - 147		
Bromomethane	ND		50.0	48.65		ug/L		97	16 - 163		
Carbon disulfide	ND		50.0	49.90		ug/L		100	48 - 152		
Carbon tetrachloride	ND		50.0	49.46		ug/L		99	62 - 164		
Chlorobenzene	ND		50.0	50.44		ug/L		101	80 - 129		
Chlorodibromomethane	ND		50.0	51.23		ug/L		102	66 - 140		
Chloroethane	ND		50.0	61.17		ug/L		122	58 - 137		
Chloroform	ND		50.0	50.20		ug/L		100	66 - 138		
Chloromethane	ND		50.0	58.44		ug/L		117	10 - 169		
cis-1,2-Dichloroethene	ND		50.0	51.79		ug/L		104	68 - 138		
cis-1,3-Dichloropropene	ND		50.0	52.81		ug/L		106	71 - 141		
Dibromomethane	ND		50.0	51.42		ug/L		103	58 - 140		
Dichlorodifluoromethane	ND		50.0	54.30		ug/L		109	40 - 127		
Ethylbenzene	ND		50.0	53.19		ug/L		106	79 - 139		
Hexachlorobutadiene	ND		50.0	47.49		ug/L		95	45 - 155		
Isopropylbenzene	ND		50.0	51.92		ug/L		104	80 - 153		
Methyl tert-butyl ether	ND		50.0	55.63		ug/L		111	66 - 141		
Methylene Chloride	ND		50.0	48.06		ug/L		96	64 - 139		
Naphthalene	ND		50.0	58.32		ug/L		117	55 - 140		
n-Butylbenzene	ND		50.0	56.08		ug/L		112	66 - 141		
N-Propylbenzene	ND		50.0	53.13		ug/L		106	69 - 142		
p-Isopropyltoluene	ND		50.0	52.90		ug/L		106	71 - 137		
sec-Butylbenzene	ND		50.0	53.12		ug/L		106	73 - 138		
Styrene	ND		50.0	54.22		ug/L		108	61 - 148		
tert-Butylbenzene	ND		50.0	52.98		ug/L		106	70 - 138		
Tetrachloroethene	ND		50.0	48.31		ug/L		97	72 - 145		
Toluene	ND		50.0	55.54		ug/L		110	75 - 136		
trans-1,2-Dichloroethene	ND		50.0	52.93		ug/L		106	66 - 143		
trans-1,3-Dichloropropene	ND		50.0	54.63		ug/L		109	59 - 135		

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37966-B-1 MS

Matrix: Water

Analysis Batch: 117088

**Client Sample ID: Matrix Spike
Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	%Limits
	Result	Qualifier	Added	Result	Qualifier				
Trichloroethene	ND		50.0	48.98		ug/L		98	73 - 144
Trichlorofluoromethane	ND		50.0	54.96		ug/L		110	58 - 139
Vinyl chloride	ND		50.0	61.22		ug/L		122	56 - 129
Xylenes, Total	ND		100	106.8		ug/L		107	74 - 141
Surrogate									
1,2-Dichloroethane-d4 (Surr)	100	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	99			70 - 130					
Dibromofluoromethane (Surr)	96			70 - 130					
Toluene-d8 (Surr)	98			70 - 130					

Lab Sample ID: 490-37966-C-1 MSD

Matrix: Water

Analysis Batch: 117088

**Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	%Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	51.99		ug/L		104	73 - 141	0	16
1,1,1-Trichloroethane	ND		50.0	51.06		ug/L		102	76 - 149	1	17
1,1,2,2-Tetrachloroethane	ND		50.0	56.50		ug/L		113	56 - 143	2	20
1,1,2-Trichloroethane	ND		50.0	50.24		ug/L		100	74 - 134	2	15
1,1-Dichloroethane	ND		50.0	51.61		ug/L		103	71 - 139	7	17
1,1-Dichloroethene	ND		50.0	49.53		ug/L		99	70 - 142	3	17
1,1-Dichloropropene	ND		50.0	51.96		ug/L		104	76 - 139	1	17
1,2,3-Trichlorobenzene	ND		50.0	59.34		ug/L		119	55 - 138	1	25
1,2,3-Trichloropropane	ND		50.0	53.11		ug/L		106	53 - 144	1	19
1,2,4-Trichlorobenzene	ND		50.0	56.45		ug/L		113	60 - 136	4	19
1,2,4-Trimethylbenzene	ND		50.0	56.75		ug/L		114	69 - 136	5	16
1,2-Dibromo-3-Chloropropane	ND		50.0	58.79		ug/L		118	52 - 126	4	24
1,2-Dibromoethane (EDB)	ND		50.0	51.70		ug/L		103	75 - 137	1	15
1,2-Dichlorobenzene	ND		50.0	54.22		ug/L		108	79 - 128	2	15
1,2-Dichloroethane	ND		50.0	49.86		ug/L		100	64 - 136	3	17
1,2-Dichloropropane	ND		50.0	52.82		ug/L		106	67 - 131	1	17
1,3,5-Trimethylbenzene	ND		50.0	56.69		ug/L		113	69 - 139	7	17
1,3-Dichlorobenzene	ND		50.0	53.59		ug/L		107	77 - 131	6	15
1,3-Dichloropropane	ND		50.0	54.04		ug/L		108	72 - 134	0	14
1,4-Dichlorobenzene	ND		50.0	52.46		ug/L		105	78 - 126	6	15
2,2-Dichloropropane	ND		50.0	41.64		ug/L		83	37 - 175	1	18
2-Butanone (MEK)	ND		250	266.1		ug/L		106	50 - 138	6	19
2-Chlorotoluene	ND		50.0	55.02		ug/L		110	67 - 138	5	17
2-Hexanone	ND		250	323.5	F	ug/L		129	50 - 150	17	15
4-Chlorotoluene	ND		50.0	55.08		ug/L		110	69 - 138	5	18
4-Methyl-2-pentanone (MIBK)	ND		250	314.5		ug/L		126	50 - 147	14	17
Acetone	ND		250	286.0		ug/L		114	45 - 141	13	21
Benzene	ND		50.0	51.05		ug/L		102	75 - 133	2	17
Bromobenzene	ND		50.0	54.50		ug/L		109	60 - 138	4	20
Bromochloromethane	ND		50.0	48.15		ug/L		96	67 - 139	2	17
Bromodichloromethane	ND		50.0	51.32		ug/L		103	70 - 140	1	18
Bromoform	ND		50.0	54.08		ug/L		108	42 - 147	2	16

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37966-C-1 MSD

Matrix: Water

Analysis Batch: 117088

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Bromomethane	ND		50.0	49.72		ug/L		99	16 - 163	2	50	
Carbon disulfide	ND		50.0	50.44		ug/L		101	48 - 152	1	21	
Carbon tetrachloride	ND		50.0	51.31		ug/L		103	62 - 164	4	19	
Chlorobenzene	ND		50.0	51.50		ug/L		103	80 - 129	2	14	
Chlorodibromomethane	ND		50.0	52.09		ug/L		104	66 - 140	2	15	
Chloroethane	ND		50.0	56.68		ug/L		113	58 - 137	8	20	
Chloroform	ND		50.0	48.31		ug/L		97	66 - 138	4	18	
Chloromethane	ND		50.0	56.83		ug/L		114	10 - 169	3	31	
cis-1,2-Dichloroethene	ND		50.0	49.99		ug/L		100	68 - 138	4	17	
cis-1,3-Dichloropropene	ND		50.0	53.04		ug/L		106	71 - 141	0	15	
Dibromomethane	ND		50.0	50.37		ug/L		101	58 - 140	2	16	
Dichlorodifluoromethane	ND		50.0	53.13		ug/L		106	40 - 127	2	18	
Ethylbenzene	ND		50.0	55.45		ug/L		111	79 - 139	4	15	
Hexachlorobutadiene	ND		50.0	48.67		ug/L		97	45 - 155	2	23	
Isopropylbenzene	ND		50.0	54.93		ug/L		110	80 - 153	6	16	
Methyl tert-butyl ether	ND		50.0	53.13		ug/L		106	66 - 141	5	16	
Methylene Chloride	ND		50.0	45.93		ug/L		92	64 - 139	5	17	
Naphthalene	ND		50.0	55.89		ug/L		112	55 - 140	4	26	
n-Butylbenzene	ND		50.0	57.03		ug/L		114	66 - 141	2	18	
N-Propylbenzene	ND		50.0	57.26		ug/L		115	69 - 142	7	17	
p-Isopropyltoluene	ND		50.0	56.67		ug/L		113	71 - 137	7	16	
sec-Butylbenzene	ND		50.0	57.59		ug/L		115	73 - 138	8	16	
Styrene	ND		50.0	55.68		ug/L		111	61 - 148	3	24	
tert-Butylbenzene	ND		50.0	56.89		ug/L		114	70 - 138	7	16	
Tetrachloroethene	ND		50.0	51.20		ug/L		102	72 - 145	6	16	
Toluene	ND		50.0	55.73		ug/L		111	75 - 136	0	15	
trans-1,2-Dichloroethene	ND		50.0	51.50		ug/L		103	66 - 143	3	16	
trans-1,3-Dichloropropene	ND		50.0	53.87		ug/L		108	59 - 135	1	14	
Trichloroethene	ND		50.0	49.64		ug/L		99	73 - 144	1	17	
Trichlorofluoromethane	ND		50.0	52.33		ug/L		105	58 - 139	5	18	
Vinyl chloride	ND		50.0	57.39		ug/L		115	56 - 129	6	17	
Xylenes, Total	ND		100	110.9		ug/L		111	74 - 141	4	15	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MB 490-117436/7

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/29/13 01:12	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-117436/7

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer									
1,1-Dichloroethane	ND				1.00		ug/L			10/29/13 01:12	1
1,1-Dichloroethene	ND				1.00		ug/L			10/29/13 01:12	1
1,1-Dichloropropene	ND				1.00		ug/L			10/29/13 01:12	1
1,2,3-Trichlorobenzene	ND				1.00		ug/L			10/29/13 01:12	1
1,2,3-Trichloropropane	ND				1.00		ug/L			10/29/13 01:12	1
1,2,4-Trichlorobenzene	ND				1.00		ug/L			10/29/13 01:12	1
1,2,4-Trimethylbenzene	ND				1.00		ug/L			10/29/13 01:12	1
1,2-Dibromo-3-Chloropropane	ND				10.0		ug/L			10/29/13 01:12	1
1,2-Dibromoethane (EDB)	ND				1.00		ug/L			10/29/13 01:12	1
1,2-Dichlorobenzene	ND				1.00		ug/L			10/29/13 01:12	1
1,2-Dichloroethane	ND				1.00		ug/L			10/29/13 01:12	1
1,2-Dichloropropane	ND				1.00		ug/L			10/29/13 01:12	1
1,3,5-Trimethylbenzene	ND				1.00		ug/L			10/29/13 01:12	1
1,3-Dichlorobenzene	ND				1.00		ug/L			10/29/13 01:12	1
1,3-Dichloropropane	ND				1.00		ug/L			10/29/13 01:12	1
1,4-Dichlorobenzene	ND				1.00		ug/L			10/29/13 01:12	1
2,2-Dichloropropane	ND				1.00		ug/L			10/29/13 01:12	1
2-Butanone (MEK)	ND				50.0		ug/L			10/29/13 01:12	1
2-Chlorotoluene	ND				1.00		ug/L			10/29/13 01:12	1
2-Hexanone	ND				5.00		ug/L			10/29/13 01:12	1
4-Chlorotoluene	ND				1.00		ug/L			10/29/13 01:12	1
4-Methyl-2-pentanone (MIBK)	ND				5.00		ug/L			10/29/13 01:12	1
Acetone	ND				5.00		ug/L			10/29/13 01:12	1
Benzene	ND				1.00		ug/L			10/29/13 01:12	1
Bromobenzene	ND				1.00		ug/L			10/29/13 01:12	1
Bromochloromethane	ND				1.00		ug/L			10/29/13 01:12	1
Bromodichloromethane	ND				1.00		ug/L			10/29/13 01:12	1
Bromoform	ND				1.00		ug/L			10/29/13 01:12	1
Bromomethane	ND				1.00		ug/L			10/29/13 01:12	1
Carbon disulfide	ND				1.00		ug/L			10/29/13 01:12	1
Carbon tetrachloride	ND				1.00		ug/L			10/29/13 01:12	1
Chlorobenzene	ND				1.00		ug/L			10/29/13 01:12	1
Chlorodibromomethane	ND				1.00		ug/L			10/29/13 01:12	1
Chloroethane	ND				1.00		ug/L			10/29/13 01:12	1
Chloroform	ND				1.00		ug/L			10/29/13 01:12	1
Chloromethane	ND				1.00		ug/L			10/29/13 01:12	1
cis-1,2-Dichloroethene	ND				1.00		ug/L			10/29/13 01:12	1
cis-1,3-Dichloropropene	ND				1.00		ug/L			10/29/13 01:12	1
Dibromomethane	ND				1.00		ug/L			10/29/13 01:12	1
Dichlorodifluoromethane	ND				1.00		ug/L			10/29/13 01:12	1
Ethylbenzene	ND				1.00		ug/L			10/29/13 01:12	1
Hexachlorobutadiene	ND				2.00		ug/L			10/29/13 01:12	1
Isopropylbenzene	ND				1.00		ug/L			10/29/13 01:12	1
Methyl tert-butyl ether	ND				1.00		ug/L			10/29/13 01:12	1
Methylene Chloride	ND				5.00		ug/L			10/29/13 01:12	1
Naphthalene	ND				5.00		ug/L			10/29/13 01:12	1
n-Butylbenzene	ND				1.00		ug/L			10/29/13 01:12	1
N-Propylbenzene	ND				1.00		ug/L			10/29/13 01:12	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-117436/7

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND	ND									
p-Isopropyltoluene			ND		1.00		ug/L			10/29/13 01:12	1
sec-Butylbenzene			ND		1.00		ug/L			10/29/13 01:12	1
Styrene			ND		1.00		ug/L			10/29/13 01:12	1
tert-Butylbenzene			ND		1.00		ug/L			10/29/13 01:12	1
Tetrachloroethene			ND		1.00		ug/L			10/29/13 01:12	1
Toluene			ND		1.00		ug/L			10/29/13 01:12	1
trans-1,2-Dichloroethene			ND		1.00		ug/L			10/29/13 01:12	1
trans-1,3-Dichloropropene			ND		1.00		ug/L			10/29/13 01:12	1
Trichloroethene			ND		1.00		ug/L			10/29/13 01:12	1
Trichlorofluoromethane			ND		1.00		ug/L			10/29/13 01:12	1
Vinyl chloride			ND		1.00		ug/L			10/29/13 01:12	1
Xylenes, Total			ND		2.00		ug/L			10/29/13 01:12	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	113						
4-Bromofluorobenzene (Surr)		94			70 - 130		10/29/13 01:12	1
Dibromofluoromethane (Surr)		104			70 - 130		10/29/13 01:12	1
Toluene-d8 (Surr)		96			70 - 130		10/29/13 01:12	1

Lab Sample ID: LCS 490-117436/3

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS			%Rec.		
		Result	Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	50.0	56.82		ug/L		114	74 - 135
1,1,1-Trichloroethane	50.0	59.41		ug/L		119	78 - 135
1,1,2,2-Tetrachloroethane	50.0	47.96		ug/L		96	69 - 131
1,1,2-Trichloroethane	50.0	49.12		ug/L		98	80 - 124
1,1-Dichloroethane	50.0	51.81		ug/L		104	78 - 125
1,1-Dichloroethene	50.0	54.63		ug/L		109	79 - 124
1,1-Dichloropropene	50.0	55.81		ug/L		112	80 - 122
1,2,3-Trichlorobenzene	50.0	56.74		ug/L		113	62 - 133
1,2,3-Trichloropropane	50.0	49.10		ug/L		98	70 - 131
1,2,4-Trichlorobenzene	50.0	56.38		ug/L		113	63 - 133
1,2,4-Trimethylbenzene	50.0	56.32		ug/L		113	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.41		ug/L		107	54 - 125
1,2-Dibromoethane (EDB)	50.0	51.49		ug/L		103	80 - 129
1,2-Dichlorobenzene	50.0	53.96		ug/L		108	80 - 121
1,2-Dichloroethane	50.0	57.07		ug/L		114	77 - 121
1,2-Dichloropropene	50.0	49.90		ug/L		100	75 - 120
1,3,5-Trimethylbenzene	50.0	56.48		ug/L		113	77 - 127
1,3-Dichlorobenzene	50.0	54.77		ug/L		110	80 - 122
1,3-Dichloropropane	50.0	50.57		ug/L		101	80 - 125
1,4-Dichlorobenzene	50.0	53.66		ug/L		107	80 - 120
2,2-Dichloropropane	50.0	59.30		ug/L		119	43 - 161
2-Butanone (MEK)	250	257.5		ug/L		103	62 - 133
2-Chlorotoluene	50.0	52.99		ug/L		106	75 - 126
2-Hexanone	250	263.0		ug/L		105	60 - 142

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-117436/3

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
4-Chlorotoluene	50.0	54.09		ug/L		108	75 - 130
4-Methyl-2-pentanone (MIBK)	250	257.3		ug/L		103	60 - 137
Acetone	250	254.5		ug/L		102	54 - 145
Benzene	50.0	51.77		ug/L		104	80 - 121
Bromobenzene	50.0	54.29		ug/L		109	68 - 130
Bromochloromethane	50.0	52.14		ug/L		104	78 - 129
Bromodichloromethane	50.0	57.15		ug/L		114	75 - 129
Bromoform	50.0	64.04		ug/L		128	46 - 145
Bromomethane	50.0	55.85		ug/L		112	41 - 150
Carbon disulfide	50.0	53.49		ug/L		107	77 - 126
Carbon tetrachloride	50.0	62.52		ug/L		125	64 - 147
Chlorobenzene	50.0	53.18		ug/L		106	80 - 120
Chlorodibromomethane	50.0	56.17		ug/L		112	69 - 133
Chloroethane	50.0	51.99		ug/L		104	72 - 120
Chloroform	50.0	53.03		ug/L		106	73 - 129
Chloromethane	50.0	53.29		ug/L		107	12 - 150
cis-1,2-Dichloroethene	50.0	55.11		ug/L		110	76 - 125
cis-1,3-Dichloropropene	50.0	53.74		ug/L		107	74 - 140
Dibromomethane	50.0	52.72		ug/L		105	71 - 125
Dichlorodifluoromethane	50.0	62.91		ug/L		126	37 - 127
Ethylbenzene	50.0	55.57		ug/L		111	80 - 130
Hexachlorobutadiene	50.0	56.60		ug/L		113	49 - 146
Isopropylbenzene	50.0	61.26		ug/L		123	80 - 141
Methyl tert-butyl ether	50.0	53.61		ug/L		107	72 - 133
Methylene Chloride	50.0	47.43		ug/L		95	79 - 123
Naphthalene	50.0	48.77		ug/L		98	62 - 138
n-Butylbenzene	50.0	57.34		ug/L		115	68 - 132
N-Propylbenzene	50.0	55.51		ug/L		111	75 - 129
p-Isopropyltoluene	50.0	58.26		ug/L		117	75 - 128
sec-Butylbenzene	50.0	57.43		ug/L		115	76 - 128
Styrene	50.0	59.44		ug/L		119	80 - 127
tert-Butylbenzene	50.0	57.07		ug/L		114	76 - 126
Tetrachloroethene	50.0	56.79		ug/L		114	80 - 126
Toluene	50.0	52.62		ug/L		105	80 - 126
trans-1,2-Dichloroethene	50.0	53.14		ug/L		106	79 - 126
trans-1,3-Dichloropropene	50.0	56.73		ug/L		113	63 - 134
Trichloroethene	50.0	55.76		ug/L		112	80 - 123
Trichlorofluoromethane	50.0	55.98		ug/L		112	65 - 124
Vinyl chloride	50.0	52.51		ug/L		105	68 - 120
Xylenes, Total	100	115.6		ug/L		116	80 - 132

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-117436/4

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	54.80		ug/L	110	74 - 135	4	16	
1,1,1-Trichloroethane	50.0	57.87		ug/L	116	78 - 135	3	17	
1,1,2,2-Tetrachloroethane	50.0	46.92		ug/L	94	69 - 131	2	20	
1,1,2-Trichloroethane	50.0	47.25		ug/L	95	80 - 124	4	15	
1,1-Dichloroethane	50.0	51.10		ug/L	102	78 - 125	1	17	
1,1-Dichloroethene	50.0	51.56		ug/L	103	79 - 124	6	17	
1,1-Dichloropropene	50.0	53.92		ug/L	108	80 - 122	3	17	
1,2,3-Trichlorobenzene	50.0	56.11		ug/L	112	62 - 133	1	25	
1,2,3-Trichloropropane	50.0	48.13		ug/L	96	70 - 131	2	19	
1,2,4-Trichlorobenzene	50.0	55.32		ug/L	111	63 - 133	2	19	
1,2,4-Trimethylbenzene	50.0	54.79		ug/L	110	77 - 126	3	16	
1,2-Dibromo-3-Chloropropane	50.0	52.99		ug/L	106	54 - 125	1	24	
1,2-Dibromoethane (EDB)	50.0	49.70		ug/L	99	80 - 129	4	15	
1,2-Dichlorobenzene	50.0	52.49		ug/L	105	80 - 121	3	15	
1,2-Dichloroethane	50.0	55.70		ug/L	111	77 - 121	2	17	
1,2-Dichloropropane	50.0	48.77		ug/L	98	75 - 120	2	17	
1,3,5-Trimethylbenzene	50.0	54.42		ug/L	109	77 - 127	4	17	
1,3-Dichlorobenzene	50.0	53.40		ug/L	107	80 - 122	3	15	
1,3-Dichloropropane	50.0	49.61		ug/L	99	80 - 125	2	14	
1,4-Dichlorobenzene	50.0	51.68		ug/L	103	80 - 120	4	15	
2,2-Dichloropropane	50.0	57.13		ug/L	114	43 - 161	4	18	
2-Butanone (MEK)	250	239.6		ug/L	96	62 - 133	7	19	
2-Chlorotoluene	50.0	51.86		ug/L	104	75 - 126	2	17	
2-Hexanone	250	257.9		ug/L	103	60 - 142	2	15	
4-Chlorotoluene	50.0	52.20		ug/L	104	75 - 130	4	18	
4-Methyl-2-pentanone (MIBK)	250	251.6		ug/L	101	60 - 137	2	17	
Acetone	250	264.0		ug/L	106	54 - 145	4	21	
Benzene	50.0	50.22		ug/L	100	80 - 121	3	17	
Bromobenzene	50.0	53.91		ug/L	108	68 - 130	1	20	
Bromochloromethane	50.0	50.55		ug/L	101	78 - 129	3	17	
Bromodichloromethane	50.0	55.40		ug/L	111	75 - 129	3	18	
Bromoform	50.0	61.68		ug/L	123	46 - 145	4	16	
Bromomethane	50.0	55.73		ug/L	111	41 - 150	0	50	
Carbon disulfide	50.0	52.28		ug/L	105	77 - 126	2	21	
Carbon tetrachloride	50.0	60.15		ug/L	120	64 - 147	4	19	
Chlorobenzene	50.0	51.45		ug/L	103	80 - 120	3	14	
Chlorodibromomethane	50.0	55.11		ug/L	110	69 - 133	2	15	
Chloroethane	50.0	50.71		ug/L	101	72 - 120	2	20	
Chloroform	50.0	51.75		ug/L	103	73 - 129	2	18	
Chloromethane	50.0	53.62		ug/L	107	12 - 150	1	31	
cis-1,2-Dichloroethene	50.0	53.17		ug/L	106	76 - 125	4	17	
cis-1,3-Dichloropropene	50.0	51.90		ug/L	104	74 - 140	3	15	
Dibromomethane	50.0	52.81		ug/L	106	71 - 125	0	16	
Dichlorodifluoromethane	50.0	61.26		ug/L	123	37 - 127	3	18	
Ethylbenzene	50.0	54.11		ug/L	108	80 - 130	3	15	
Hexachlorobutadiene	50.0	55.22		ug/L	110	49 - 146	2	23	
Isopropylbenzene	50.0	59.16		ug/L	118	80 - 141	3	16	
Methyl tert-butyl ether	50.0	52.31		ug/L	105	72 - 133	2	16	

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-117436/4

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Methylene Chloride	50.0	46.20		ug/L		92	79 - 123	3	17
Naphthalene	50.0	47.86		ug/L		96	62 - 138	2	26
n-Butylbenzene	50.0	55.86		ug/L		112	68 - 132	3	18
N-Propylbenzene	50.0	53.83		ug/L		108	75 - 129	3	17
p-Isopropyltoluene	50.0	56.21		ug/L		112	75 - 128	4	16
sec-Butylbenzene	50.0	55.67		ug/L		111	76 - 128	3	16
Styrene	50.0	55.36		ug/L		111	80 - 127	7	24
tert-Butylbenzene	50.0	55.21		ug/L		110	76 - 126	3	16
Tetrachloroethene	50.0	54.42		ug/L		109	80 - 126	4	16
Toluene	50.0	50.51		ug/L		101	80 - 126	4	15
trans-1,2-Dichloroethene	50.0	50.95		ug/L		102	79 - 126	4	16
trans-1,3-Dichloropropene	50.0	54.78		ug/L		110	63 - 134	4	14
Trichloroethene	50.0	54.36		ug/L		109	80 - 123	3	17
Trichlorofluoromethane	50.0	54.78		ug/L		110	65 - 124	2	18
Vinyl chloride	50.0	51.00		ug/L		102	68 - 120	3	17
Xylenes, Total	100	109.7		ug/L		110	80 - 132	5	15

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-38573-B-18 MS

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	56.53		ug/L		113	73 - 141
1,1,1-Trichloroethane	ND		50.0	58.91		ug/L		118	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	46.84		ug/L		94	56 - 143
1,1,2-Trichloroethane	ND		50.0	48.08		ug/L		96	74 - 134
1,1-Dichloroethane	ND		50.0	52.36		ug/L		105	71 - 139
1,1-Dichloroethene	ND		50.0	54.59		ug/L		109	70 - 142
1,1-Dichloropropene	ND		50.0	55.32		ug/L		111	76 - 139
1,2,3-Trichlorobenzene	ND		50.0	54.87		ug/L		110	55 - 138
1,2,3-Trichloropropane	ND		50.0	47.20		ug/L		94	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	55.92		ug/L		112	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	55.52		ug/L		111	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	55.92		ug/L		112	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	50.25		ug/L		100	75 - 137
1,2-Dichlorobenzene	ND		50.0	56.03		ug/L		112	79 - 128
1,2-Dichloroethane	ND		50.0	55.55		ug/L		111	64 - 136
1,2-Dichloropropane	ND		50.0	49.95		ug/L		100	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	55.43		ug/L		111	69 - 139
1,3-Dichlorobenzene	ND		50.0	53.73		ug/L		107	77 - 131
1,3-Dichloropropane	ND		50.0	49.45		ug/L		99	72 - 134
1,4-Dichlorobenzene	ND		50.0	52.11		ug/L		104	78 - 126

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38573-B-18 MS

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analysis Batch: 117436

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
2,2-Dichloropropane	ND		50.0	60.56		ug/L		121	37 - 175	
2-Butanone (MEK)	ND		250	236.3		ug/L		95	50 - 138	
2-Chlorotoluene	ND		50.0	52.67		ug/L		105	67 - 138	
2-Hexanone	ND		250	251.6		ug/L		101	50 - 150	
4-Chlorotoluene	ND		50.0	53.71		ug/L		107	69 - 138	
4-Methyl-2-pentanone (MIBK)	ND		250	242.6		ug/L		97	50 - 147	
Acetone	ND		250	248.0		ug/L		99	45 - 141	
Benzene	ND		50.0	51.77		ug/L		104	75 - 133	
Bromobenzene	ND		50.0	54.24		ug/L		108	60 - 138	
Bromoform	ND		50.0	54.09		ug/L		108	67 - 139	
Bromochloromethane	ND		50.0	57.10		ug/L		114	70 - 140	
Bromoform	ND		50.0	57.90		ug/L		116	42 - 147	
Bromomethane	ND		50.0	56.70		ug/L		113	16 - 163	
Carbon disulfide	ND		50.0	52.13		ug/L		104	48 - 152	
Carbon tetrachloride	ND		50.0	61.40		ug/L		123	62 - 164	
Chlorobenzene	ND		50.0	53.53		ug/L		107	80 - 129	
Chlorodibromomethane	ND		50.0	55.55		ug/L		111	66 - 140	
Chloroethane	ND		50.0	52.19		ug/L		104	58 - 137	
Chloroform	ND		50.0	53.78		ug/L		108	66 - 138	
Chloromethane	ND		50.0	53.13		ug/L		106	10 - 169	
cis-1,2-Dichloroethene	ND		50.0	56.61		ug/L		113	68 - 138	
cis-1,3-Dichloropropene	ND		50.0	53.14		ug/L		106	71 - 141	
Dibromomethane	ND		50.0	51.80		ug/L		104	58 - 140	
Dichlorodifluoromethane	ND		50.0	67.34	F	ug/L		135	40 - 127	
Ethylbenzene	ND		50.0	55.90		ug/L		112	79 - 139	
Hexachlorobutadiene	ND		50.0	54.75		ug/L		109	45 - 155	
Isopropylbenzene	ND		50.0	56.59		ug/L		113	80 - 153	
Methyl tert-butyl ether	ND		50.0	52.00		ug/L		104	66 - 141	
Methylene Chloride	ND		50.0	50.77		ug/L		94	64 - 139	
Naphthalene	ND		50.0	48.51		ug/L		97	55 - 140	
n-Butylbenzene	ND		50.0	59.01		ug/L		118	66 - 141	
N-Propylbenzene	ND		50.0	54.48		ug/L		109	69 - 142	
p-Isopropyltoluene	ND		50.0	56.86		ug/L		114	71 - 137	
sec-Butylbenzene	ND		50.0	56.41		ug/L		113	73 - 138	
Styrene	ND		50.0	56.17		ug/L		112	61 - 148	
tert-Butylbenzene	ND		50.0	56.15		ug/L		112	70 - 138	
Tetrachloroethene	ND		50.0	56.74		ug/L		113	72 - 145	
Toluene	ND		50.0	52.97		ug/L		106	75 - 136	
trans-1,2-Dichloroethene	ND		50.0	52.52		ug/L		105	66 - 143	
trans-1,3-Dichloropropene	ND		50.0	54.54		ug/L		109	59 - 135	
Trichloroethene	ND		50.0	66.56		ug/L		133	73 - 144	
Trichlorofluoromethane	ND		50.0	62.38		ug/L		125	58 - 139	
Vinyl chloride	ND		50.0	53.76		ug/L		108	56 - 129	
Xylenes, Total	ND		100	112.2		ug/L		112	74 - 141	
Surrogate		MS	MS							
		%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)		106		70 - 130						
4-Bromofluorobenzene (Surr)		93		70 - 130						

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38573-B-18 MS

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	%Recovery	MS Qualifier	MS Limits
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 490-38573-C-18 MSD

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	58.15		ug/L	116	73 - 141	3	16	10
1,1,1-Trichloroethane	ND		50.0	60.60		ug/L	121	76 - 149	3	17	11
1,1,2,2-Tetrachloroethane	ND		50.0	51.74		ug/L	103	56 - 143	10	20	12
1,1,2-Trichloroethane	ND		50.0	49.83		ug/L	100	74 - 134	4	15	13
1,1-Dichloroethane	ND		50.0	54.45		ug/L	109	71 - 139	4	17	14
1,1-Dichloroethene	ND		50.0	57.17		ug/L	114	70 - 142	5	17	15
1,1-Dichloropropene	ND		50.0	57.77		ug/L	116	76 - 139	4	17	16
1,2,3-Trichlorobenzene	ND		50.0	59.15		ug/L	118	55 - 138	8	25	17
1,2,3-Trichloropropane	ND		50.0	51.19		ug/L	102	53 - 144	8	19	18
1,2,4-Trichlorobenzene	ND		50.0	58.48		ug/L	117	60 - 136	4	19	19
1,2,4-Trimethylbenzene	ND		50.0	57.06		ug/L	114	69 - 136	3	16	20
1,2-Dibromo-3-Chloropropane	ND		50.0	56.77		ug/L	114	52 - 126	2	24	21
1,2-Dibromoethane (EDB)	ND		50.0	52.09		ug/L	104	75 - 137	4	15	22
1,2-Dichlorobenzene	ND		50.0	55.48		ug/L	111	79 - 128	1	15	23
1,2-Dichloroethane	ND		50.0	58.24		ug/L	116	64 - 136	5	17	24
1,2-Dichloropropene	ND		50.0	52.60		ug/L	105	67 - 131	5	17	25
1,3,5-Trimethylbenzene	ND		50.0	57.48		ug/L	115	69 - 139	4	17	26
1,3-Dichlorobenzene	ND		50.0	56.18		ug/L	112	77 - 131	4	15	27
1,3-Dichloropropane	ND		50.0	51.46		ug/L	103	72 - 134	4	14	28
1,4-Dichlorobenzene	ND		50.0	54.66		ug/L	109	78 - 126	5	15	29
2,2-Dichloropropane	ND		50.0	63.14		ug/L	126	37 - 175	4	18	30
2-Butanone (MEK)	ND		250	259.8		ug/L	104	50 - 138	9	19	31
2-Chlorotoluene	ND		50.0	55.62		ug/L	111	67 - 138	5	17	32
2-Hexanone	ND		250	268.7		ug/L	107	50 - 150	7	15	33
4-Chlorotoluene	ND		50.0	55.98		ug/L	112	69 - 138	4	18	34
4-Methyl-2-pentanone (MIBK)	ND		250	259.4		ug/L	104	50 - 147	7	17	35
Acetone	ND		250	266.8		ug/L	107	45 - 141	7	21	36
Benzene	ND		50.0	54.46		ug/L	109	75 - 133	5	17	37
Bromobenzene	ND		50.0	58.14		ug/L	116	60 - 138	7	20	38
Bromochloromethane	ND		50.0	55.16		ug/L	110	67 - 139	2	17	39
Bromodichloromethane	ND		50.0	59.85		ug/L	120	70 - 140	5	18	40
Bromoform	ND		50.0	63.72		ug/L	127	42 - 147	10	16	41
Bromomethane	ND		50.0	63.35		ug/L	127	16 - 163	11	50	42
Carbon disulfide	ND		50.0	53.36		ug/L	107	48 - 152	2	21	43
Carbon tetrachloride	ND		50.0	64.24		ug/L	128	62 - 164	5	19	44
Chlorobenzene	ND		50.0	54.55		ug/L	109	80 - 129	2	14	45
Chlorodibromomethane	ND		50.0	57.25		ug/L	114	66 - 140	3	15	46
Chloroethane	ND		50.0	54.27		ug/L	109	58 - 137	4	20	47
Chloroform	ND		50.0	55.59		ug/L	111	66 - 138	3	18	48
Chloromethane	ND		50.0	56.63		ug/L	113	10 - 169	6	31	49

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38573-C-18 MSD

Matrix: Water

Analysis Batch: 117436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.		RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec	Limits		
cis-1,2-Dichloroethene	ND		50.0	58.27		ug/L		117	68 - 138	3	17
cis-1,3-Dichloropropene	ND		50.0	54.62		ug/L		109	71 - 141	3	15
Dibromomethane	ND		50.0	55.12		ug/L		110	58 - 140	6	16
Dichlorodifluoromethane	ND		50.0	69.46 F		ug/L		139	40 - 127	3	18
Ethylbenzene	ND		50.0	57.40		ug/L		115	79 - 139	3	15
Hexachlorobutadiene	ND		50.0	59.46		ug/L		119	45 - 155	8	23
Isopropylbenzene	ND		50.0	61.63		ug/L		123	80 - 153	9	16
Methyl tert-butyl ether	ND		50.0	56.13		ug/L		112	66 - 141	8	16
Methylene Chloride	ND		50.0	53.06		ug/L		99	64 - 139	4	17
Naphthalene	ND		50.0	50.80		ug/L		102	55 - 140	5	26
n-Butylbenzene	ND		50.0	59.14		ug/L		118	66 - 141	0	18
N-Propylbenzene	ND		50.0	57.09		ug/L		114	69 - 142	5	17
p-Isopropyltoluene	ND		50.0	58.91		ug/L		118	71 - 137	4	16
sec-Butylbenzene	ND		50.0	58.87		ug/L		118	73 - 138	4	16
Styrene	ND		50.0	57.49		ug/L		115	61 - 148	2	24
tert-Butylbenzene	ND		50.0	58.34		ug/L		117	70 - 138	4	16
Tetrachloroethene	ND		50.0	57.67		ug/L		115	72 - 145	2	16
Toluene	ND		50.0	53.62		ug/L		107	75 - 136	1	15
trans-1,2-Dichloroethene	ND		50.0	55.53		ug/L		111	66 - 143	6	16
trans-1,3-Dichloropropene	ND		50.0	56.81		ug/L		114	59 - 135	4	14
Trichloroethene	ND		50.0	63.27		ug/L		127	73 - 144	5	17
Trichlorofluoromethane	ND		50.0	59.14		ug/L		118	58 - 139	5	18
Vinyl chloride	ND		50.0	56.62		ug/L		113	56 - 129	5	17
Xylenes, Total	ND		100	114.9		ug/L		115	74 - 141	2	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: MB 490-117736/7

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed		Dil Fac
	Result	Qualifier						%	Date	
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L				10/29/13 14:49	1
1,1,1-Trichloroethane	ND		1.00		ug/L				10/29/13 14:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L				10/29/13 14:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L				10/29/13 14:49	1
1,1-Dichloroethane	ND		1.00		ug/L				10/29/13 14:49	1
1,1-Dichloroethene	ND		1.00		ug/L				10/29/13 14:49	1
1,1-Dichloropropene	ND		1.00		ug/L				10/29/13 14:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L				10/29/13 14:49	1
1,2,3-Trichloropropane	ND		1.00		ug/L				10/29/13 14:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L				10/29/13 14:49	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L				10/29/13 14:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L				10/29/13 14:49	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-117736/7

Client Sample ID: Method Blank
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 117736

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/29/13 14:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/29/13 14:49	1
1,2-Dichloroethane	ND		1.00		ug/L			10/29/13 14:49	1
1,2-Dichloropropane	ND		1.00		ug/L			10/29/13 14:49	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/29/13 14:49	1
1,3-Dichloropropane	ND		1.00		ug/L			10/29/13 14:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/29/13 14:49	1
2,2-Dichloropropane	ND		1.00		ug/L			10/29/13 14:49	1
2-Butanone (MEK)	ND		50.0		ug/L			10/29/13 14:49	1
2-Chlorotoluene	ND		1.00		ug/L			10/29/13 14:49	1
2-Hexanone	ND		5.00		ug/L			10/29/13 14:49	1
4-Chlorotoluene	ND		1.00		ug/L			10/29/13 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/29/13 14:49	1
Acetone	ND		5.00		ug/L			10/29/13 14:49	1
Benzene	ND		1.00		ug/L			10/29/13 14:49	1
Bromobenzene	ND		1.00		ug/L			10/29/13 14:49	1
Bromochloromethane	ND		1.00		ug/L			10/29/13 14:49	1
Bromodichloromethane	ND		1.00		ug/L			10/29/13 14:49	1
Bromoform	ND		1.00		ug/L			10/29/13 14:49	1
Bromomethane	ND		1.00		ug/L			10/29/13 14:49	1
Carbon disulfide	ND		1.00		ug/L			10/29/13 14:49	1
Carbon tetrachloride	ND		1.00		ug/L			10/29/13 14:49	1
Chlorobenzene	ND		1.00		ug/L			10/29/13 14:49	1
Chlorodibromomethane	ND		1.00		ug/L			10/29/13 14:49	1
Chloroethane	ND		1.00		ug/L			10/29/13 14:49	1
Chloroform	ND		1.00		ug/L			10/29/13 14:49	1
Chloromethane	ND		1.00		ug/L			10/29/13 14:49	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/29/13 14:49	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 14:49	1
Dibromomethane	ND		1.00		ug/L			10/29/13 14:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/29/13 14:49	1
Ethylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
Hexachlorobutadiene	ND		2.00		ug/L			10/29/13 14:49	1
Isopropylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/29/13 14:49	1
Methylene Chloride	ND		5.00		ug/L			10/29/13 14:49	1
Naphthalene	ND		5.00		ug/L			10/29/13 14:49	1
n-Butylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
N-Propylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
p-Isopropyltoluene	ND		1.00		ug/L			10/29/13 14:49	1
sec-Butylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
Styrene	ND		1.00		ug/L			10/29/13 14:49	1
tert-Butylbenzene	ND		1.00		ug/L			10/29/13 14:49	1
Tetrachloroethene	ND		1.00		ug/L			10/29/13 14:49	1
Toluene	ND		1.00		ug/L			10/29/13 14:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/29/13 14:49	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 14:49	1

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-117736/7

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	1.646		1.00		ug/L			10/29/13 14:49	1
Trichlorofluoromethane	ND		1.00		ug/L			10/29/13 14:49	1
Vinyl chloride	ND		1.00		ug/L			10/29/13 14:49	1
Xylenes, Total	ND		2.00		ug/L			10/29/13 14:49	1

MB MB

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		70 - 130			1
4-Bromofluorobenzene (Surr)	94		70 - 130			1
Dibromofluoromethane (Surr)	101		70 - 130			1
Toluene-d8 (Surr)	96		70 - 130			1

Lab Sample ID: LCS 490-117736/3

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
1,1,1,2-Tetrachloroethane	50.0	53.57			ug/L		107	74 - 135
1,1,1-Trichloroethane	50.0	55.71			ug/L		111	78 - 135
1,1,2,2-Tetrachloroethane	50.0	46.07			ug/L		92	69 - 131
1,1,2-Trichloroethane	50.0	47.35			ug/L		95	80 - 124
1,1-Dichloroethane	50.0	50.02			ug/L		100	78 - 125
1,1-Dichloroethene	50.0	50.93			ug/L		102	79 - 124
1,1-Dichloropropene	50.0	53.19			ug/L		106	80 - 122
1,2,3-Trichlorobenzene	50.0	54.59			ug/L		109	62 - 133
1,2,3-Trichloropropane	50.0	46.39			ug/L		93	70 - 131
1,2,4-Trichlorobenzene	50.0	51.75			ug/L		104	63 - 133
1,2,4-Trimethylbenzene	50.0	52.53			ug/L		105	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	54.52			ug/L		109	54 - 125
1,2-Dibromoethane (EDB)	50.0	49.53			ug/L		99	80 - 129
1,2-Dichlorobenzene	50.0	50.71			ug/L		101	80 - 121
1,2-Dichloroethane	50.0	54.33			ug/L		109	77 - 121
1,2-Dichloropropane	50.0	48.84			ug/L		98	75 - 120
1,3,5-Trimethylbenzene	50.0	52.34			ug/L		105	77 - 127
1,3-Dichlorobenzene	50.0	51.45			ug/L		103	80 - 122
1,3-Dichloropropane	50.0	49.51			ug/L		99	80 - 125
1,4-Dichlorobenzene	50.0	50.16			ug/L		100	80 - 120
2,2-Dichloropropane	50.0	56.77			ug/L		114	43 - 161
2-Butanone (MEK)	250	255.1			ug/L		102	62 - 133
2-Chlorotoluene	50.0	50.34			ug/L		101	75 - 126
2-Hexanone	250	268.4			ug/L		107	60 - 142
4-Chlorotoluene	50.0	50.83			ug/L		102	75 - 130
4-Methyl-2-pentanone (MIBK)	250	259.4			ug/L		104	60 - 137
Acetone	250	268.8			ug/L		108	54 - 145
Benzene	50.0	50.14			ug/L		100	80 - 121
Bromobenzene	50.0	49.43			ug/L		99	68 - 130
Bromochloromethane	50.0	50.84			ug/L		102	78 - 129
Bromodichloromethane	50.0	55.08			ug/L		110	75 - 129
Bromoform	50.0	57.88			ug/L		116	46 - 145

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-117736/3

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Bromomethane	50.0	58.95		ug/L		118	41 - 150	
Carbon disulfide	50.0	51.07		ug/L		102	77 - 126	
Carbon tetrachloride	50.0	57.76		ug/L		116	64 - 147	
Chlorobenzene	50.0	50.74		ug/L		101	80 - 120	
Chlorodibromomethane	50.0	53.86		ug/L		108	69 - 133	
Chloroethane	50.0	50.42		ug/L		101	72 - 120	
Chloroform	50.0	51.13		ug/L		102	73 - 129	
Chloromethane	50.0	53.25		ug/L		107	12 - 150	
cis-1,2-Dichloroethene	50.0	53.97		ug/L		108	76 - 125	
cis-1,3-Dichloropropene	50.0	52.17		ug/L		104	74 - 140	
Dibromomethane	50.0	50.83		ug/L		102	71 - 125	
Dichlorodifluoromethane	50.0	60.02		ug/L		120	37 - 127	
Ethylbenzene	50.0	52.69		ug/L		105	80 - 130	
Hexachlorobutadiene	50.0	50.14		ug/L		100	49 - 146	
Isopropylbenzene	50.0	53.66		ug/L		107	80 - 141	
Methyl tert-butyl ether	50.0	53.12		ug/L		106	72 - 133	
Methylene Chloride	50.0	46.09		ug/L		92	79 - 123	
Naphthalene	50.0	48.64		ug/L		97	62 - 138	
n-Butylbenzene	50.0	52.68		ug/L		105	68 - 132	
N-Propylbenzene	50.0	50.91		ug/L		102	75 - 129	
p-Isopropyltoluene	50.0	53.29		ug/L		107	75 - 128	
sec-Butylbenzene	50.0	52.82		ug/L		106	76 - 128	
Styrene	50.0	53.30		ug/L		107	80 - 127	
tert-Butylbenzene	50.0	52.98		ug/L		106	76 - 126	
Tetrachloroethene	50.0	51.90		ug/L		104	80 - 126	
Toluene	50.0	50.19		ug/L		100	80 - 126	
trans-1,2-Dichloroethene	50.0	51.33		ug/L		103	79 - 126	
trans-1,3-Dichloropropene	50.0	54.41		ug/L		109	63 - 134	
Trichloroethene	50.0	55.71		ug/L		111	80 - 123	
Trichlorofluoromethane	50.0	59.23		ug/L		118	65 - 124	
Vinyl chloride	50.0	51.66		ug/L		103	68 - 120	
Xylenes, Total	100	105.9		ug/L		106	80 - 132	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 490-117736/4

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD		Unit	D	%Rec	Limits	%Rec.	RPD	Limit
	Added	Result	Qualifier							
1,1,1,2-Tetrachloroethane	50.0	53.75		ug/L		107	74 - 135	0	16	
1,1,1-Trichloroethane	50.0	55.69		ug/L		111	78 - 135	0	17	
1,1,2,2-Tetrachloroethane	50.0	49.73		ug/L		99	69 - 131	8	20	
1,1,2-Trichloroethane	50.0	48.28		ug/L		97	80 - 124	2	15	

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-117736/4

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 117736

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	RPD Limit
	Added	Result	Qualifier				Limits	RPD		
1,1-Dichloroethane	50.0	51.01		ug/L		102	78 - 125	2	17	
1,1-Dichloroethene	50.0	52.70		ug/L		105	79 - 124	3	17	
1,1-Dichloropropene	50.0	53.42		ug/L		107	80 - 122	0	17	
1,2,3-Trichlorobenzene	50.0	56.58		ug/L		113	62 - 133	4	25	
1,2,3-Trichloropropane	50.0	50.62		ug/L		101	70 - 131	9	19	
1,2,4-Trichlorobenzene	50.0	54.26		ug/L		109	63 - 133	5	19	
1,2,4-Trimethylbenzene	50.0	53.58		ug/L		107	77 - 126	2	16	
1,2-Dibromo-3-Chloropropane	50.0	56.15		ug/L		112	54 - 125	3	24	
1,2-Dibromoethane (EDB)	50.0	50.53		ug/L		101	80 - 129	2	15	
1,2-Dichlorobenzene	50.0	52.00		ug/L		104	80 - 121	3	15	
1,2-Dichloroethane	50.0	55.07		ug/L		110	77 - 121	1	17	
1,2-Dichloropropane	50.0	49.32		ug/L		99	75 - 120	1	17	
1,3,5-Trimethylbenzene	50.0	53.21		ug/L		106	77 - 127	2	17	
1,3-Dichlorobenzene	50.0	52.24		ug/L		104	80 - 122	2	15	
1,3-Dichloropropane	50.0	49.83		ug/L		100	80 - 125	1	14	
1,4-Dichlorobenzene	50.0	50.64		ug/L		101	80 - 120	1	15	
2,2-Dichloropropane	50.0	56.88		ug/L		114	43 - 161	0	18	
2-Butanone (MEK)	250	262.6		ug/L		105	62 - 133	3	19	
2-Chlorotoluene	50.0	51.69		ug/L		103	75 - 126	3	17	
2-Hexanone	250	271.1		ug/L		108	60 - 142	1	15	
4-Chlorotoluene	50.0	51.57		ug/L		103	75 - 130	1	18	
4-Methyl-2-pentanone (MIBK)	250	261.4		ug/L		105	60 - 137	1	17	
Acetone	250	286.3		ug/L		115	54 - 145	6	21	
Benzene	50.0	49.99		ug/L		100	80 - 121	0	17	
Bromobenzene	50.0	52.81		ug/L		106	68 - 130	7	20	
Bromochloromethane	50.0	51.47		ug/L		103	78 - 129	1	17	
Bromodichloromethane	50.0	55.91		ug/L		112	75 - 129	1	18	
Bromoform	50.0	56.85		ug/L		114	46 - 145	2	16	
Bromomethane	50.0	59.51		ug/L		119	41 - 150	1	50	
Carbon disulfide	50.0	51.24		ug/L		102	77 - 126	0	21	
Carbon tetrachloride	50.0	57.80		ug/L		116	64 - 147	0	19	
Chlorobenzene	50.0	50.96		ug/L		102	80 - 120	0	14	
Chlorodibromomethane	50.0	54.43		ug/L		109	69 - 133	1	15	
Chloroethane	50.0	50.20		ug/L		100	72 - 120	0	20	
Chloroform	50.0	51.09		ug/L		102	73 - 129	0	18	
Chloromethane	50.0	53.26		ug/L		107	12 - 150	0	31	
cis-1,2-Dichloroethene	50.0	54.57		ug/L		109	76 - 125	1	17	
cis-1,3-Dichloropropene	50.0	51.97		ug/L		104	74 - 140	0	15	
Dibromomethane	50.0	52.65		ug/L		105	71 - 125	4	16	
Dichlorodifluoromethane	50.0	60.23		ug/L		120	37 - 127	0	18	
Ethylbenzene	50.0	52.87		ug/L		106	80 - 130	0	15	
Hexachlorobutadiene	50.0	52.59		ug/L		105	49 - 146	5	23	
Isopropylbenzene	50.0	53.72		ug/L		107	80 - 141	0	16	
Methyl tert-butyl ether	50.0	53.45		ug/L		107	72 - 133	1	16	
Methylene Chloride	50.0	46.69		ug/L		93	79 - 123	1	17	
Naphthalene	50.0	50.16		ug/L		100	62 - 138	3	26	
n-Butylbenzene	50.0	53.01		ug/L		106	68 - 132	1	18	
N-Propylbenzene	50.0	52.27		ug/L		105	75 - 129	3	17	

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-117736/4

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec.		RPD	RPD Limit
		Result	Qualifier			%Rec.	Limits		
p-Isopropyltoluene	50.0	54.82		ug/L	110	75 - 128		3	16
sec-Butylbenzene	50.0	53.73		ug/L	107	76 - 128		2	16
Styrene	50.0	54.41		ug/L	109	80 - 127		2	24
tert-Butylbenzene	50.0	53.90		ug/L	108	76 - 126		2	16
Tetrachloroethene	50.0	52.14		ug/L	104	80 - 126		0	16
Toluene	50.0	50.13		ug/L	100	80 - 126		0	15
trans-1,2-Dichloroethene	50.0	51.55		ug/L	103	79 - 126		0	16
trans-1,3-Dichloropropene	50.0	55.44		ug/L	111	63 - 134		2	14
Trichloroethene	50.0	55.86		ug/L	112	80 - 123		0	17
Trichlorofluoromethane	50.0	59.03		ug/L	118	65 - 124		0	18
Vinyl chloride	50.0	52.11		ug/L	104	68 - 120		1	17
Xylenes, Total	100	106.3		ug/L	106	80 - 132		0	15

Surrogate	LCSD		Limits
	LCSD	%Recovery	Qualifier
1,1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-38720-B-10 MS

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec.	
	Result	Qualifier	Added	Result	Qualifier			%Rec.	Limits
1,1,1,2-Tetrachloroethane	ND		50.0	53.82		ug/L	108	73 - 141	
1,1,1-Trichloroethane	ND		50.0	58.91		ug/L	118	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	51.00		ug/L	102	56 - 143	
1,1,2-Trichloroethane	ND		50.0	50.06		ug/L	100	74 - 134	
1,1-Dichloroethane	ND		50.0	61.15		ug/L	122	71 - 139	
1,1-Dichloroethene	ND		50.0	63.55		ug/L	127	70 - 142	
1,1-Dichloropropene	ND		50.0	58.22		ug/L	116	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	55.52		ug/L	111	55 - 138	
1,2,3-Trichloropropane	ND		50.0	50.78		ug/L	102	53 - 144	
1,2,4-Trichlorobenzene	ND		50.0	55.63		ug/L	111	60 - 136	
1,2,4-Trimethylbenzene	ND		50.0	54.72		ug/L	109	69 - 136	
1,2-Dibromo-3-Chloropropane	ND		50.0	62.11		ug/L	124	52 - 126	
1,2-Dibromoethane (EDB)	ND		50.0	50.43		ug/L	101	75 - 137	
1,2-Dichlorobenzene	ND		50.0	55.32		ug/L	111	79 - 128	
1,2-Dichloroethane	ND		50.0	55.07		ug/L	110	64 - 136	
1,2-Dichloropropane	ND		50.0	50.50		ug/L	101	67 - 131	
1,3,5-Trimethylbenzene	ND		50.0	54.16		ug/L	108	69 - 139	
1,3-Dichlorobenzene	ND		50.0	52.60		ug/L	105	77 - 131	
1,3-Dichloropropane	ND		50.0	49.83		ug/L	100	72 - 134	
1,4-Dichlorobenzene	ND		50.0	50.88		ug/L	102	78 - 126	
2,2-Dichloropropane	ND		50.0	63.22		ug/L	126	37 - 175	
2-Butanone (MEK)	ND		250	308.5		ug/L	123	50 - 138	
2-Chlorotoluene	ND		50.0	51.84		ug/L	104	67 - 138	
2-Hexanone	ND		250	276.0		ug/L	110	50 - 150	

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38720-B-10 MS

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
4-Chlorotoluene	ND		50.0	51.93		ug/L		104	69 - 138		
4-Methyl-2-pentanone (MIBK)	ND		250	267.3		ug/L		107	50 - 147		
Acetone	ND		250	327.2		ug/L		131	45 - 141		
Benzene	ND		50.0	54.58		ug/L		109	75 - 133		
Bromobenzene	ND		50.0	54.71		ug/L		109	60 - 138		
Bromochloromethane	ND		50.0	55.78		ug/L		112	67 - 139		
Bromodichloromethane	ND		50.0	50.81		ug/L		102	70 - 140		
Bromoform	ND		50.0	57.18		ug/L		114	42 - 147		
Bromomethane	ND		50.0	58.71		ug/L		117	16 - 163		
Carbon disulfide	ND		50.0	54.44		ug/L		109	48 - 152		
Carbon tetrachloride	ND		50.0	58.34		ug/L		117	62 - 164		
Chlorobenzene	ND		50.0	51.73		ug/L		103	80 - 129		
Chlorodibromomethane	ND		50.0	53.70		ug/L		107	66 - 140		
Chloroethane	ND		50.0	66.54		ug/L		133	58 - 137		
Chloroform	ND		50.0	56.31		ug/L		113	66 - 138		
Chloromethane	ND		50.0	58.69		ug/L		117	10 - 169		
cis-1,2-Dichloroethene	ND		50.0	64.24		ug/L		128	68 - 138		
cis-1,3-Dichloropropene	ND		50.0	52.74		ug/L		105	71 - 141		
Dibromomethane	ND		50.0	50.24		ug/L		100	58 - 140		
Dichlorodifluoromethane	ND		50.0	52.24		ug/L		104	40 - 127		
Ethylbenzene	ND		50.0	53.40		ug/L		107	79 - 139		
Hexachlorobutadiene	ND		50.0	49.30		ug/L		99	45 - 155		
Isopropylbenzene	ND		50.0	53.52		ug/L		107	80 - 153		
Methyl tert-butyl ether	ND		50.0	63.25		ug/L		126	66 - 141		
Methylene Chloride	ND		50.0	57.50		ug/L		115	64 - 139		
Naphthalene	ND		50.0	62.65		ug/L		125	55 - 140		
n-Butylbenzene	ND		50.0	56.14		ug/L		112	66 - 141		
N-Propylbenzene	ND		50.0	52.89		ug/L		106	69 - 142		
p-Isopropyltoluene	ND		50.0	54.34		ug/L		109	71 - 137		
sec-Butylbenzene	ND		50.0	53.75		ug/L		108	73 - 138		
Styrene	ND		50.0	52.04		ug/L		104	61 - 148		
tert-Butylbenzene	ND		50.0	54.52		ug/L		109	70 - 138		
Tetrachloroethene	ND		50.0	51.48		ug/L		103	72 - 145		
Toluene	ND		50.0	50.92		ug/L		102	75 - 136		
trans-1,2-Dichloroethene	ND		50.0	61.84		ug/L		124	66 - 143		
trans-1,3-Dichloropropene	ND		50.0	54.45		ug/L		109	59 - 135		
Trichloroethene	1.11	B	50.0	54.84		ug/L		107	73 - 144		
Trichlorofluoromethane	ND		50.0	57.65		ug/L		115	58 - 139		
Vinyl chloride	ND		50.0	63.66		ug/L		127	56 - 129		
Xylenes, Total	ND		100	105.7		ug/L		106	74 - 141		
Surrogate		MS	MS								
		%Recovery	Qualifier		Limits						
1,2-Dichloroethane-d4 (Surr)	106			70 - 130							
4-Bromofluorobenzene (Surr)	98			70 - 130							
Dibromofluoromethane (Surr)	105			70 - 130							
Toluene-d8 (Surr)	95			70 - 130							

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38720-C-10 MSD

Matrix: Water

Analysis Batch: 117736

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		50.0	54.85		ug/L	110	73 - 141	2	16		
1,1,1-Trichloroethane	ND		50.0	57.93		ug/L	116	76 - 149	2	17		
1,1,2,2-Tetrachloroethane	ND		50.0	48.11		ug/L	96	56 - 143	6	20		
1,1,2-Trichloroethane	ND		50.0	49.62		ug/L	99	74 - 134	1	15		
1,1-Dichloroethane	ND		50.0	58.95		ug/L	118	71 - 139	4	17		
1,1-Dichloroethene	ND		50.0	59.77		ug/L	120	70 - 142	6	17		
1,1-Dichloropropene	ND		50.0	60.45		ug/L	121	76 - 139	4	17		
1,2,3-Trichlorobenzene	ND		50.0	56.89		ug/L	114	55 - 138	2	25		
1,2,3-Trichloropropane	ND		50.0	47.72		ug/L	95	53 - 144	6	19		
1,2,4-Trichlorobenzene	ND		50.0	54.01		ug/L	108	60 - 136	3	19		
1,2,4-Trimethylbenzene	ND		50.0	54.41		ug/L	109	69 - 136	1	16		
1,2-Dibromo-3-Chloropropane	ND		50.0	56.57		ug/L	113	52 - 126	9	24		
1,2-Dibromoethane (EDB)	ND		50.0	51.90		ug/L	104	75 - 137	3	15		
1,2-Dichlorobenzene	ND		50.0	52.44		ug/L	105	79 - 128	5	15		
1,2-Dichloroethane	ND		50.0	52.70		ug/L	105	64 - 136	4	17		
1,2-Dichloropropane	ND		50.0	52.19		ug/L	104	67 - 131	3	17		
1,3,5-Trimethylbenzene	ND		50.0	50.64		ug/L	101	69 - 139	7	17		
1,3-Dichlorobenzene	ND		50.0	53.08		ug/L	106	77 - 131	1	15		
1,3-Dichloropropane	ND		50.0	51.66		ug/L	103	72 - 134	4	14		
1,4-Dichlorobenzene	ND		50.0	52.00		ug/L	104	78 - 126	2	15		
2,2-Dichloropropane	ND		50.0	56.53		ug/L	113	37 - 175	11	18		
2-Butanone (MEK)	ND		250	280.8		ug/L	112	50 - 138	9	19		
2-Chlorotoluene	ND		50.0	48.64		ug/L	97	67 - 138	6	17		
2-Hexanone	ND		250	285.5		ug/L	114	50 - 150	3	15		
4-Chlorotoluene	ND		50.0	49.24		ug/L	98	69 - 138	5	18		
4-Methyl-2-pentanone (MIBK)	ND		250	312.1		ug/L	125	50 - 147	15	17		
Acetone	ND		250	332.7		ug/L	133	45 - 141	2	21		
Benzene	ND		50.0	52.62		ug/L	105	75 - 133	4	17		
Bromobenzene	ND		50.0	51.21		ug/L	102	60 - 138	7	20		
Bromochloromethane	ND		50.0	52.71		ug/L	105	67 - 139	6	17		
Bromodichloromethane	ND		50.0	54.06		ug/L	108	70 - 140	6	18		
Bromoform	ND		50.0	58.84		ug/L	118	42 - 147	3	16		
Bromomethane	ND		50.0	66.55		ug/L	133	16 - 163	13	50		
Carbon disulfide	ND		50.0	55.78		ug/L	112	48 - 152	2	21		
Carbon tetrachloride	ND		50.0	60.30		ug/L	121	62 - 164	3	19		
Chlorobenzene	ND		50.0	52.62		ug/L	105	80 - 129	2	14		
Chlorodibromomethane	ND		50.0	56.18		ug/L	112	66 - 140	5	15		
Chloroethane	ND		50.0	66.98		ug/L	134	58 - 137	1	20		
Chloroform	ND		50.0	54.50		ug/L	109	66 - 138	3	18		
Chloromethane	ND		50.0	62.08		ug/L	124	10 - 169	6	31		
cis-1,2-Dichloroethene	ND		50.0	58.21		ug/L	116	68 - 138	10	17		
cis-1,3-Dichloropropene	ND		50.0	65.10	F	ug/L	130	71 - 141	21	15		
Dibromomethane	ND		50.0	53.30		ug/L	107	58 - 140	6	16		
Dichlorodifluoromethane	ND		50.0	52.20		ug/L	104	40 - 127	0	18		
Ethylbenzene	ND		50.0	53.94		ug/L	108	79 - 139	1	15		
Hexachlorobutadiene	ND		50.0	50.26		ug/L	101	45 - 155	2	23		
Isopropylbenzene	ND		50.0	54.36		ug/L	109	80 - 153	2	16		
Methyl tert-butyl ether	ND		50.0	60.69		ug/L	121	66 - 141	4	16		

TestAmerica Nashville

QC Sample Results

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38720-C-10 MSD

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 117736

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Methylene Chloride	ND		50.0	55.27		ug/L		111	64 - 139	4	17
Naphthalene	ND		50.0	51.45		ug/L		103	55 - 140	20	26
n-Butylbenzene	ND		50.0	52.99		ug/L		106	66 - 141	6	18
N-Propylbenzene	ND		50.0	49.46		ug/L		99	69 - 142	7	17
p-Isopropyltoluene	ND		50.0	54.46		ug/L		109	71 - 137	0	16
sec-Butylbenzene	ND		50.0	53.88		ug/L		108	73 - 138	0	16
Styrene	ND		50.0	52.85		ug/L		106	61 - 148	2	24
tert-Butylbenzene	ND		50.0	54.41		ug/L		109	70 - 138	0	16
Tetrachloroethene	ND		50.0	53.15		ug/L		106	72 - 145	3	16
Toluene	ND		50.0	53.90		ug/L		108	75 - 136	6	15
trans-1,2-Dichloroethene	ND		50.0	59.47		ug/L		119	66 - 143	4	16
trans-1,3-Dichloropropene	ND		50.0	56.34		ug/L		113	59 - 135	3	14
Trichloroethene	1.11	B	50.0	61.43		ug/L		121	73 - 144	11	17
Trichlorofluoromethane	ND		50.0	63.65		ug/L		127	58 - 139	10	18
Vinyl chloride	ND		50.0	63.07		ug/L		126	56 - 129	1	17
Xylenes, Total	ND		100	108.3		ug/L		108	74 - 141	2	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	108		70 - 130

TestAmerica Nashville

QC Association Summary

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

GC/MS VOA

Analysis Batch: 117088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37966-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-37966-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-38362-1	MW-3	Total/NA	Ground Water	8260B	
490-38362-2	Trip	Total/NA	Water	8260B	
LCS 490-117088/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-117088/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-117088/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 117436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38362-1	MW-3	Total/NA	Ground Water	8260B	
490-38573-B-18 MS	Matrix Spike	Total/NA	Water	8260B	
490-38573-C-18 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-117436/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-117436/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-117436/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 117736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38362-1	MW-3	Total/NA	Ground Water	8260B	
490-38720-B-10 MS	Matrix Spike	Total/NA	Water	8260B	
490-38720-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-117736/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-117736/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-117736/7	Method Blank	Total/NA	Water	8260B	

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Lab Chronicle

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Client Sample ID: MW-3

Date Collected: 10/22/13 13:10

Date Received: 10/22/13 15:30

Lab Sample ID: 490-38362-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	117088	10/26/13 09:51	BJM	TAL NSH
Total/NA	Analysis	8260B		100	117436	10/29/13 03:31	BJM	TAL NSH
Total/NA	Analysis	8260B		5000	117736	10/29/13 17:10	BJM	TAL NSH

Client Sample ID: Trip

Date Collected: 10/22/13 00:01

Date Received: 10/22/13 15:30

Lab Sample ID: 490-38362-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	117088	10/26/13 07:04	BJM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Triad Environmental Consultants
Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Certification Summary

Client: Triad Environmental Consultants
 Project/Site: ELMCO

TestAmerica Job ID: 490-38362-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.



COOLER RECEIPT FORM

Cooler Received/Opened On : 10/22/2013 @ 1530

Tracking # _____ (last 4 digits, FedEx)

Courier: Client Drop Off IR Gun : 12080142

1. Temperature of rep. sample or temp blank when opened: 4.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler?
YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial)7. Were custody seals on containers: YES NO and Intact YES NO NA
YES...NO...NA

Were these signed and dated correctly?

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received?
b. Was there any observable headspace present in any VOA vial? YES...NO...NA14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____I certify that I unloaded the cooler and answered questions 7-14 (initial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial)I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

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Test America

ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: TJ

Address: 307 Denolson Pk
Nashville, TN 37214

Client #: _____

City/State/Zip Code: Chris Scott
Project Manager: 615-889-6888
Telephone Number: Fax: 615-889-4207

Project Name: ELMACO
Project #: 07-ELM001
Site/Location ID: _____
Report To: Chris Scott
Invoice To: _____
PO#: _____

Sampler Name: (Print Name) Jason Wheeler

Sampler Signature: J. Wheeler

Matrix Preservation & # of Containers: Analyze For: QC Deliverables

Standard
 Rush (surcharges may apply)

Date Needed: _____

Fax Results: N

SAMPLE ID: Envair

Date Sampled: 10/22/13

Time Sampled: _____

G = Grab, C = Composite
Field Filtered

SL - Sludge DW - Drinking Water
GW - Groundwater S - Soil/Solid
WW - Wastewater Specify Other

HNO₃
HCl
NaOH
H₂SO₄
Methanol
None
Other (Specify)

VOC

X X

REMARKS

Loc: 490
38362

QC Deliverables

None

Level 2
(Batch QC)

Level 3

Level 4

Other: _____

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Special Instructions:

LABORATORY COMMENTS:

Init Lab Temp: 64
Rec Lab Temp: 64

Custody Seals: N N/A
Bottles Supplied by Test America: Y N

Relinquished By: <u>Jason Wheeler</u>	Date: <u>10/22/13</u>	Received By: <u>WT/TAU</u>	Date: <u>10/22/13</u>	Time: <u>1530</u>
Relinquished By: _____	Date: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Received By: _____	Date: _____	Time: _____

Login Sample Receipt Checklist

Client: Triad Environmental Consultants

Job Number: 490-38362-1

Login Number: 38362

List Source: TestAmerica Nashville

List Number: 1

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	